District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Page 1 of 91

Incident ID	
District RP	
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

Responsible Party: Enterprise Field Services, LLC	OGRID: <b>241602</b>
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email:tjlong@eprod.com	Incident # (assigned by OCD) nAPP2226445914
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

### **Location of Release Source**

Latitude 36.858328

Longitude -107.685634

(NAD 83 in decimal degrees to 5 decimal places)

Site Name <b>Trunk E</b>	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 09/21/2022	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County
D	33	31N	8W	San Juan

Surface Owner: State Federal Tribal Private (Name: BLM

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls): 5-10 BBLS	Volume Recovered (bbls): None
🛛 Natural Gas	Volume Released (Mcf): 0.532 MCF	Volume Recovered (Mcf): None
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

**Cause of Release:** On September 10, 2022, Enterprise had a release of natural gas from the Trunk E. The pipeline was isolated, depressurized, locked and tagged out. No liquids were released to the ground surface. No emergency services responded. No fire nor injuries occurred. Remediation and repairs began on September 16, 2022, and Enterprise determined reportable per New Mexico Oil Conservation Division regulation, due to the volume of impacted subsurface soil on September 21, 2022. The remediation was completed on September 27, 2022. The final excavation dimensions measured approximately 13 feet long by 9 feet wide by 12 feet deep. A total of 152 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final." C-141.

Incident ID	
District RP	
Facility ID	
Application ID	
	District RP Facility ID

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following ite	ms must be included in the closure report.	
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in	
Printed Name: Thomas Long Ti	tle: Senior Environmental Scientist	
Signature:	Date: <u>6-12-2023</u>	
email: tjlong@eprod.comTele	phone <u>: (505) 599-2286</u>	
OCD Only		
Received by:	Date:	
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.	
Closure Approved by: <u>Nelson Velez</u> Printed Name: Nelson Velez	Date:06/13/2023	
Printed Name: Nelson Velez	Title:Environmental Specialist – Adv	





#### **CLOSURE REPORT**

Property:

Trunk E (09/21/22) Unit Letter D, S33 T31N R8W San Juan County, New Mexico

#### New Mexico EMNRD OCD Incident ID No. NAPP2226445914

November 28, 2022

Ensolum Project No. 05A1226209

Prepared for:

Enterprise Field Services, LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Landon Daniell Staff Geologist

Umm

Kyle Summers Senior Managing Geologist

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants

606 South Rio Grande, Suite A | Aztec, NM 87410 | ensolum.com

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- Appendix D Photographic Documentation
- Appendix E Regulatory Correspondence
- Appendix F Table 1 Soil Analytical Summary
- Appendix G Laboratory Data Sheets & Chain of Custody Documentation



Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)	
Site Name:	Trunk E (09/21/22) (Site)	
NM EMNRD OCD Incident ID No.	NAPP2226445914	
Location:	36.858328° North, 107.685634° West Unit Letter D, Section 33, Township 31 North, Range 8 West San Juan County, New Mexico	
Property:	United States Bureau of Land Management (BLM)	
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)	

On September 10, 2022, Enterprise discovered a release on the Trunk E pipeline. Enterprise personnel subsequently isolated and locked the pipeline out of service. On September 16, 2022, Enterprise initiated activities to repair the pipeline and remediate potential petroleum hydrocarbon impact. On September 21, 2022, Enterprise determined the release was "reportable" due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

#### 1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-site soils to below the applicable NM EMNRD OCD closure criteria.

#### 2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site. One POD (SJ-00198) was identified in an adjacent PLSS section, but no depth to water was recorded (Figure A, Appendix B).
- Numerous cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section and in adjacent sections. The two closest CPWs are

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located within 0.5 miles of the Site and are depicted on **Figure B** (**Appendix B**). Documentation for the cathodic protection well located near the Howell D #1 well location indicates a depth to water of approximately 460 feet bgs. This cathodic protection well is located approximately 0.40 miles north of the Site and is approximately 6 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the Howell D #4 and #353 well locations indicates a depth to water of approximately 0.46 miles east of the Site and is approximately 110 feet bgs. This cathodic protection well is located approximately 0.46 miles east of the Site and is approximately 205 feet lower in elevation than the Site.

- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (Figure D, Appendix B).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (Figure E, Appendix B).
- No freshwater wells or springs were identified within 1,000 feet of the Site (Figure E, Appendix B).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G**, **Appendix B**).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on the identified siting criteria, Enterprise estimates the depth to water at the Site to be greater than 50 feet bgs, resulting in a Tier II ranking. However, the soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four feet must contain "uncontaminated" soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12. Applicable closure criteria for Tier I soils and Tier II soils (below four feet) remaining in place at the Site include:



Closure Report Enterprise Field Services, LLC Trunk E (09/21/22)

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Tier II Closure Criteria for Soils Impacted by a Release			
Constituent <sup>1</sup>	Method	Limit	
Chloride	EPA 300.0 or SM4500 CI B	10,000 mg/kg	
TPH (GRO+DRO+MRO) <sup>2</sup>	EPA SW-846 Method 8015	2,500 mg/kg	
TPH (GRO+DRO)	EPA SW-846 Method 8015	1,000 mg/kg	
BTEX <sup>3</sup>	EPA SW-846 Method 8021 or 8260	50 mg/kg	
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg	

<sup>1</sup> – Constituent concentrations are in milligrams per kilogram (mg/kg).

<sup>2</sup> – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

<sup>3</sup> – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

Tier I Closure Criteria for Soils Impacted by a Release		
Constituent <sup>1</sup>	Method	Limit
Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg
TPH (GRO+DRO+MRO) <sup>2</sup>	EPA SW-846 Method 8015	100 mg/kg
BTEX <sup>3</sup>	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

<sup>1</sup> – Constituent concentrations are in milligrams per kilogram (mg/kg).

<sup>2</sup> – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

<sup>3</sup> – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

#### 3.0 SOIL REMEDIATION ACTIVITIES

On September 16, 2022, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Sunland Construction Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 13 feet long and 9 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 12 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of clay and shale.

Approximately 152 cubic yards ( $yd^3$ ) of petroleum hydrocarbon affected soils and 115 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and was subsequently contoured to the surrounding topography.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

#### 4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG<sup>®</sup> hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of 12 composite soil samples (S-1 through S-12) from the excavation for laboratory analysis. The composite samples were

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comprised of five aliquots each and represent an estimated 200 square foot ( $ft^2$ ) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools and the excavator bucket were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

#### First Sampling Event

On September 16, 2022, the first sampling event was performed at the Site. The NM EMNRD OCD and BLM were notified of the sampling event although no representatives were present during sampling activities. Composite soil sample S-2 (5') was collected from the floor of the excavation. Composite soil samples S-1 (0'-5'), S-3 (0'-5'), and S-4 (0'-5') were collected from the walls of the excavation.

Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil sample S-2. In response to the exceedances the excavation was enlarged. The impacted soils were removed by excavation and transported to the landfarm for disposal/remediation.

#### Second Sampling Event

On September 23, 2022, the second sampling event was performed at the Site. The NM EMNRD OCD and BLM were notified of the sampling event although no representatives were present during sampling activities. Composite sample S-5 (12') was collected from the floor of the excavation. Composite soil samples S-6 (4'-12'), S-7 (0'-4'), S-8 (5'-12'), S-9 (5'-12'), and S-10 (5'-12') were collected from walls of the excavation.

Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil sample S-9. In response to the exceedances the excavation was enlarged. The impacted soils were removed by excavation and transported to the landfarm for disposal/remediation.

#### Third Sampling Event

On September 27, 2022, the third sampling event was performed at the Site. The NM EMNRD OCD and BLM were notified of the sampling event although no representatives were present during sampling activities. Composite samples S-11 (0'-4') and S-12 (4'-12') were collected from the walls of the excavation.

All soil samples were collected and placed in laboratory-prepared glassware. The containers were labeled and sealed using the laboratory-supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, NM, under proper chain-of-custody procedures.

#### 5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method #8021; TPH GRO/DRO/MRO using EPA SW-846 Method #8015; and chlorides using EPA Method #300.0.

The laboratory analytical results are summarized in **Table 1** (**Appendix F**). The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix G**.



#### 6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1, S-4 through S-8, and S-10 through S-12) to the applicable NM EMNRD OCD closure criteria. The soils associated with composite soil samples S-1, S-3, and S-9 were removed from the Site, and therefore, are not included in the following discussion.

- The laboratory analytical results for all composite soil samples associated with soils remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD criteria of 10 mg/kg.
- The laboratory analytical results for composite soil samples S-5 and S-6 indicate total BTEX concentrations of 32 mg/kg, and 7.3 mg/kg, respectively, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other composite soil samples associated with soils remaining at the Site indicate that total BTEX is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples S-5, S-6, S-8, and S-10 indicate combined TPH GRO/DRO concentrations ranging from 37 mg/kg (S-8) to 640 mg/kg (S-5), which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg or 1,000 mg/kg (depending on the depth of the represented soil). The laboratory analytical results for all other composite soil samples associated with soils remaining at the Site indicate combined TPH GRO/DRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg or 1,000 mg/kg (depending on the depth of the represented soil).
- The laboratory analytical results for composite soil samples S-5, S-6, S-8, and S-10 indicate combined TPH GRO/DRO concentrations ranging from 37 mg/kg (S-8) to 640 mg/kg (S-5), which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg or 2,500 mg/kg (depending on the depth of the represented soil.) The laboratory analytical results for all other composite soil samples associated with soils remaining at the Site indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg or 2,500 mg/kg (depending on the depth of the represented soil).
- The laboratory analytical results for all composite soil samples associated with soils remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 600 mg/kg or 10,000 mg/kg (depending on the depth of the represented soil).

#### 7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and then contoured to the surrounding topography. Enterprise will re-seed the Site with an approved seeding mixture.

#### 8.0 FINDINGS AND RECOMMENDATION

• Twelve composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or combined TPH GRO/DRO or TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.

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• Approximately 152 yd<sup>3</sup> of petroleum hydrocarbon affected soils and 115 bbls of hydroexcavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

#### 9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

#### 9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

#### 9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work, and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

#### 9.3 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



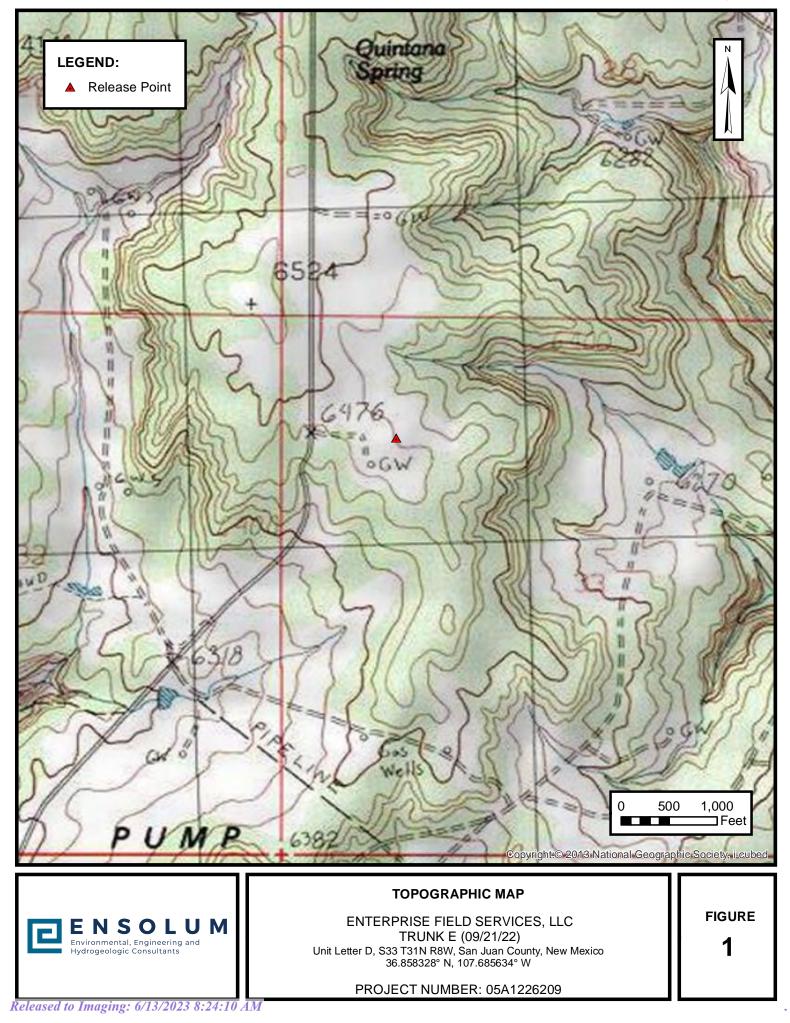


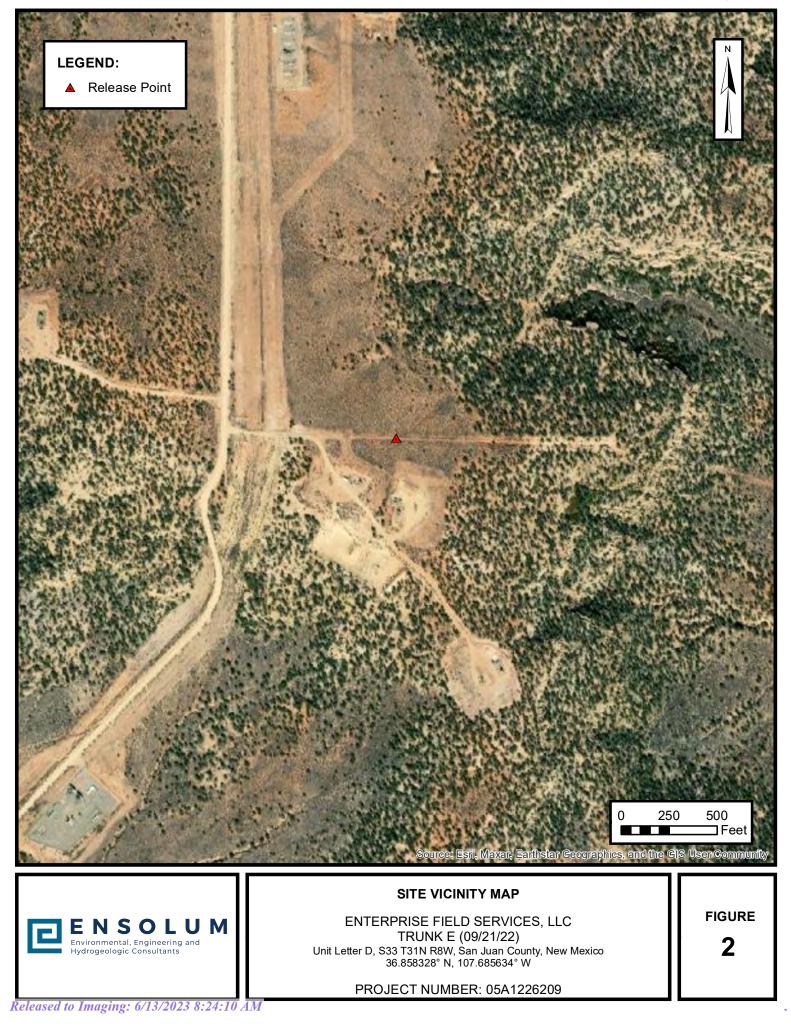
# **APPENDIX A**

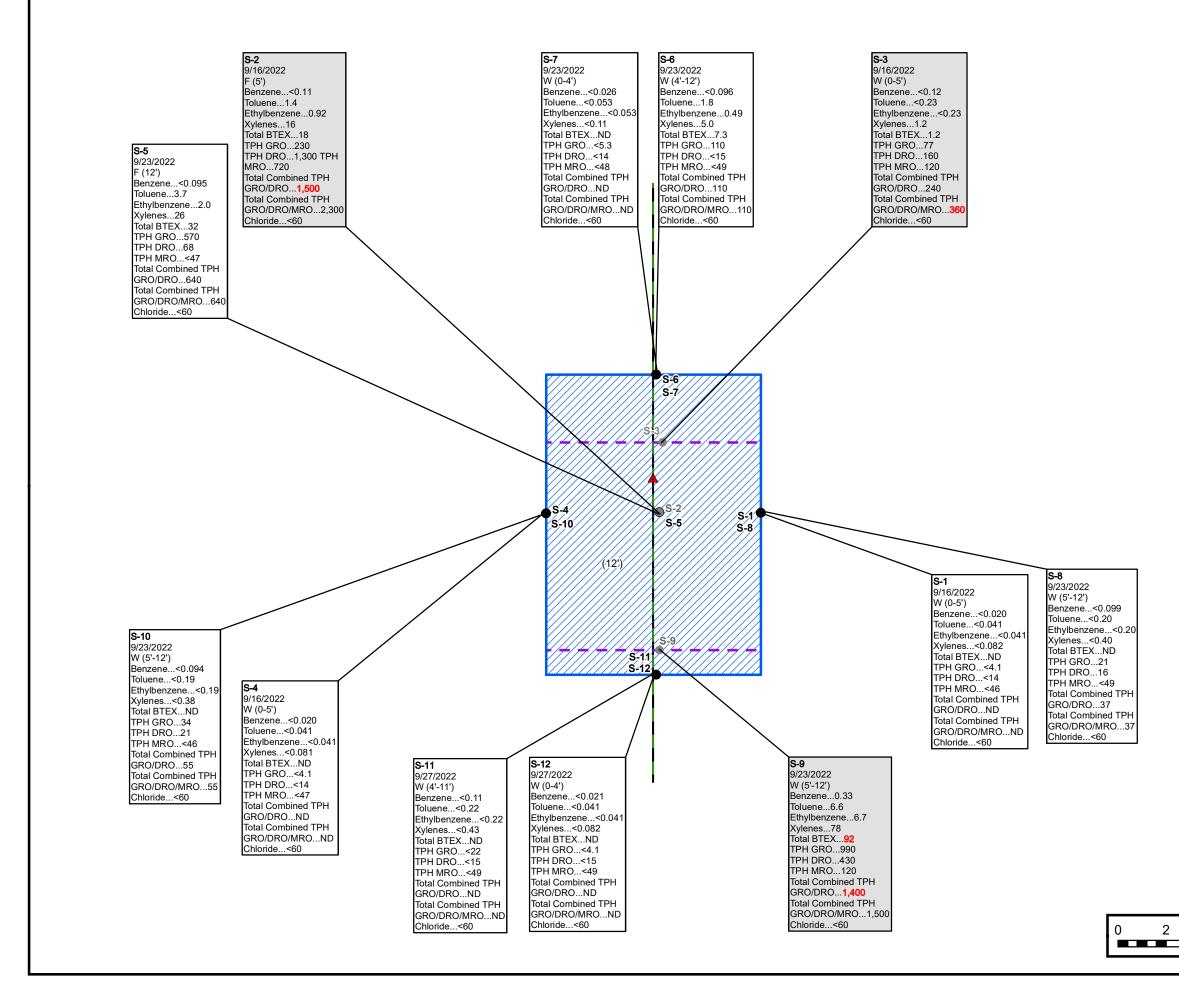
# Figures

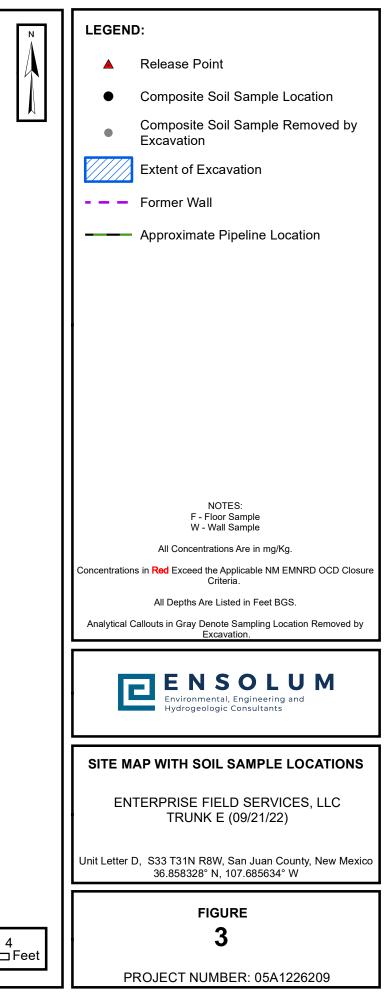
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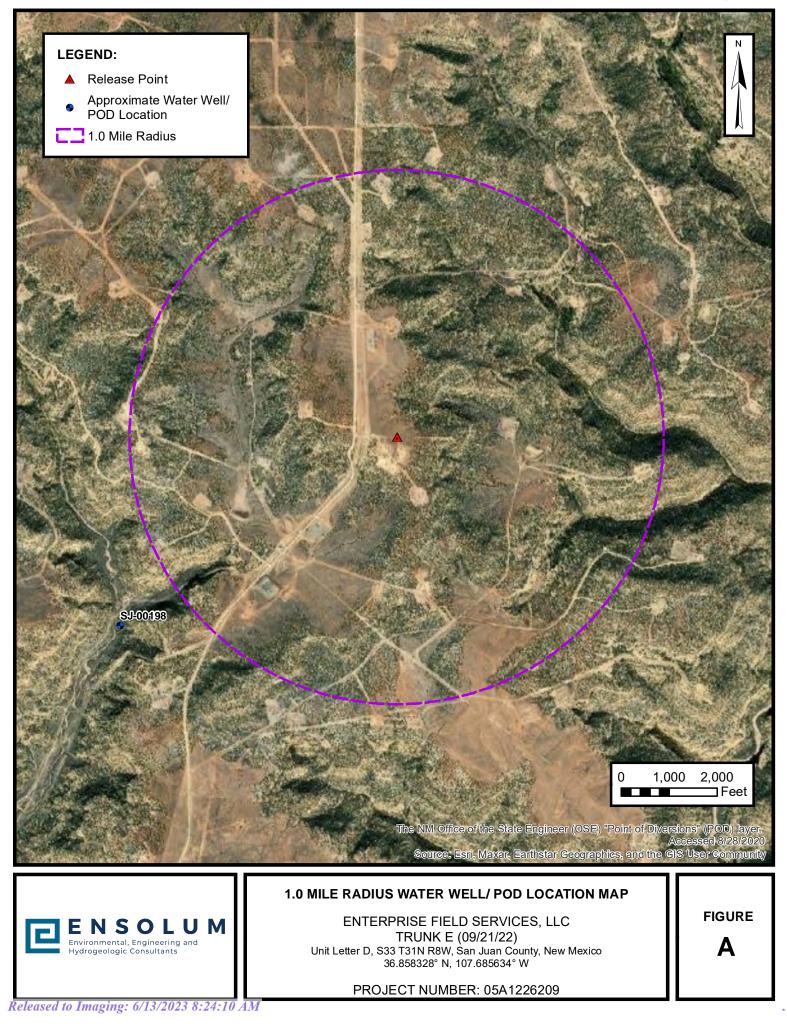


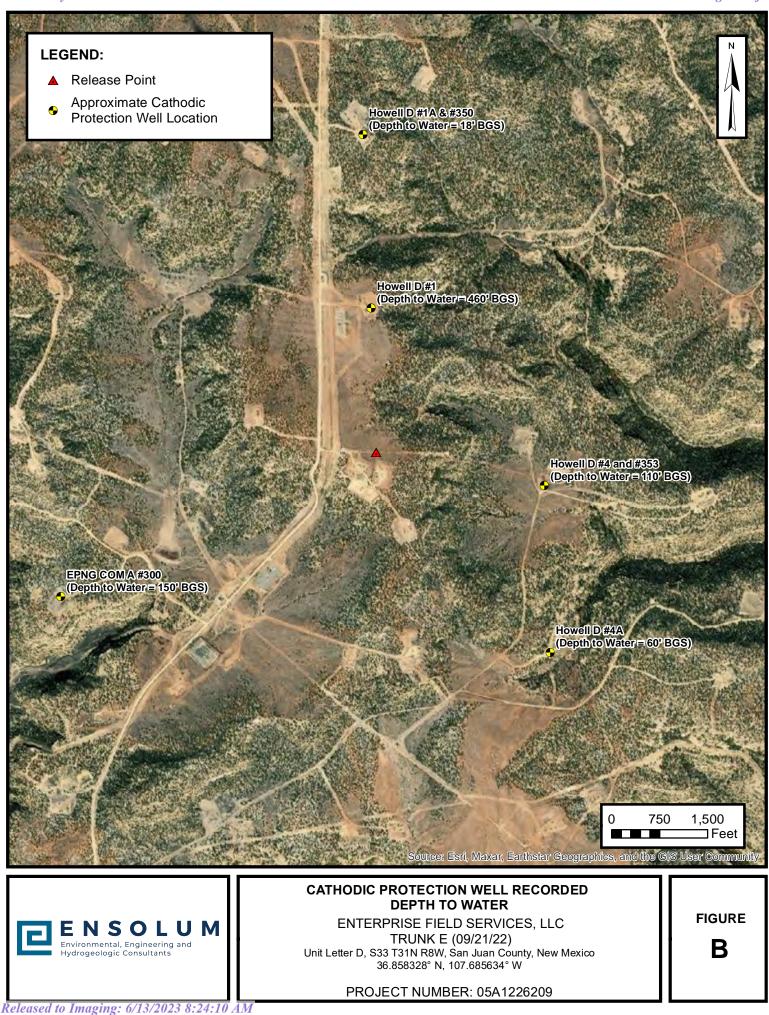


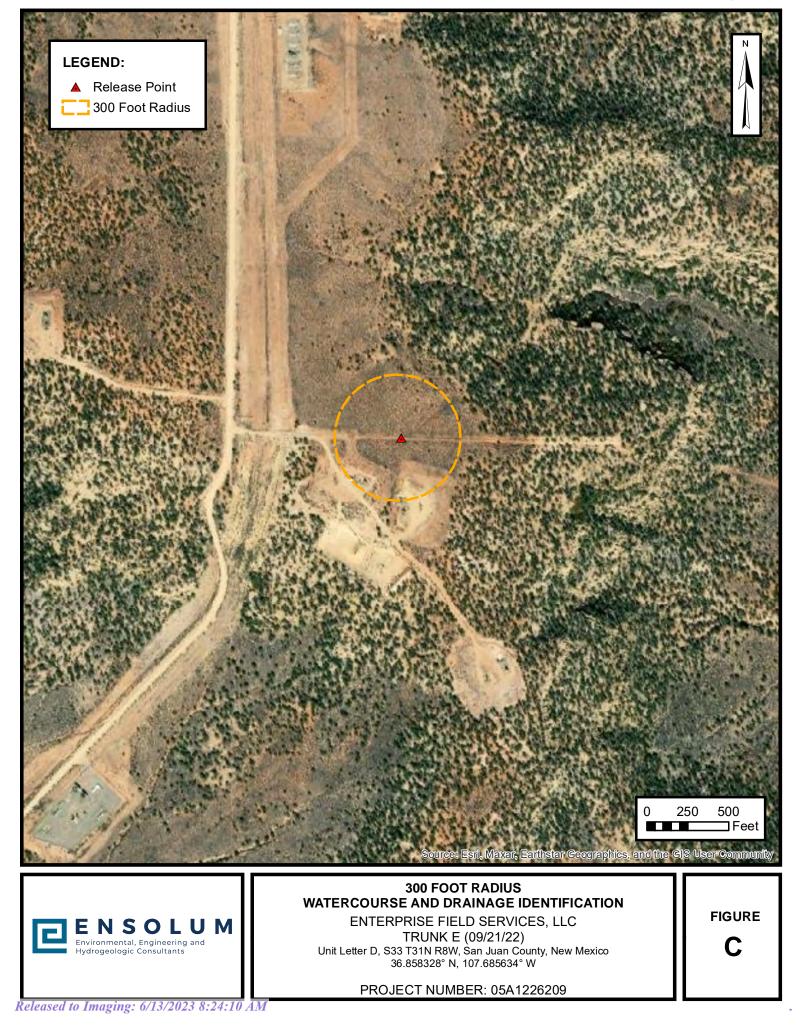
# **APPENDIX B**

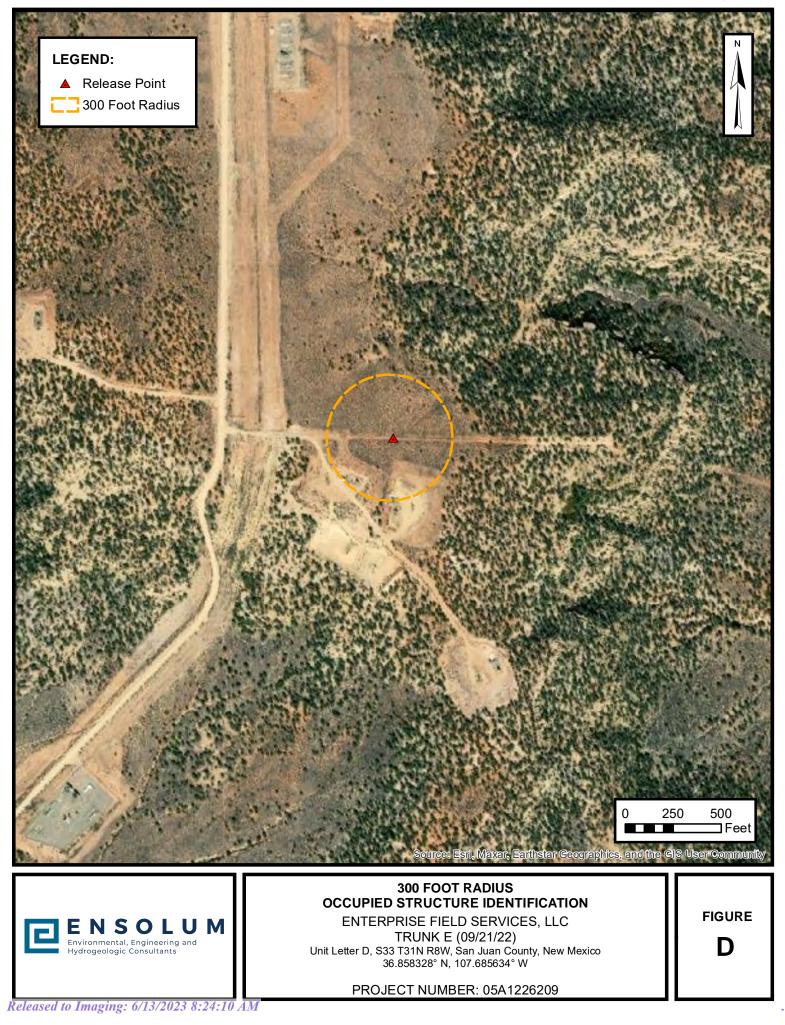
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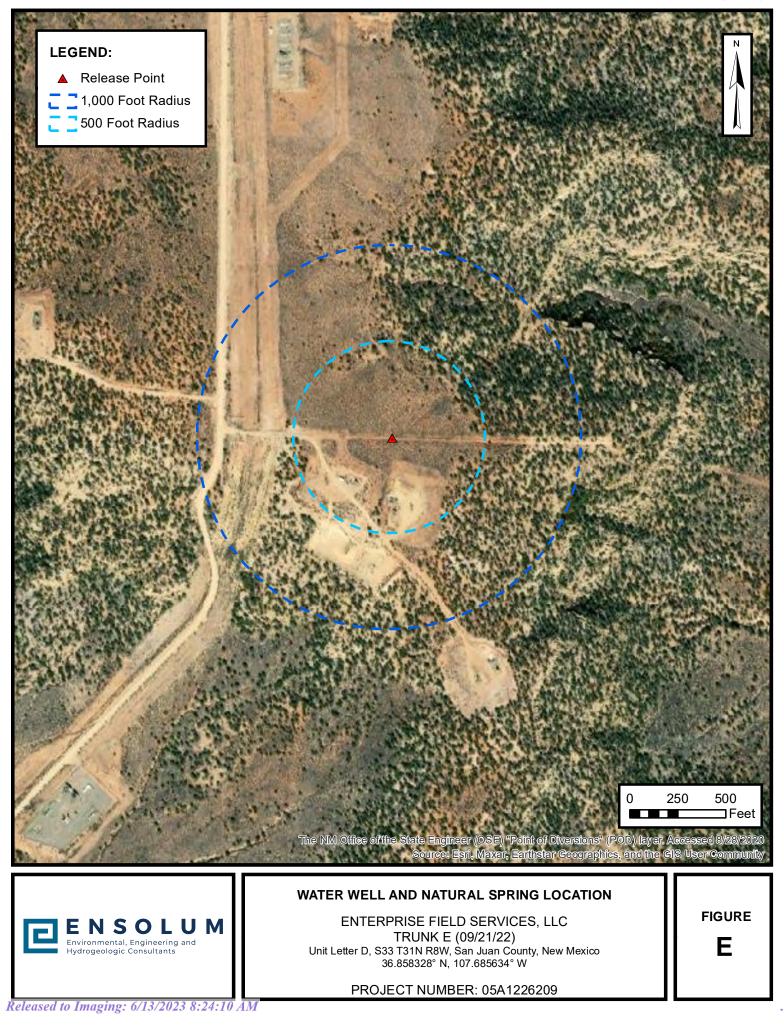
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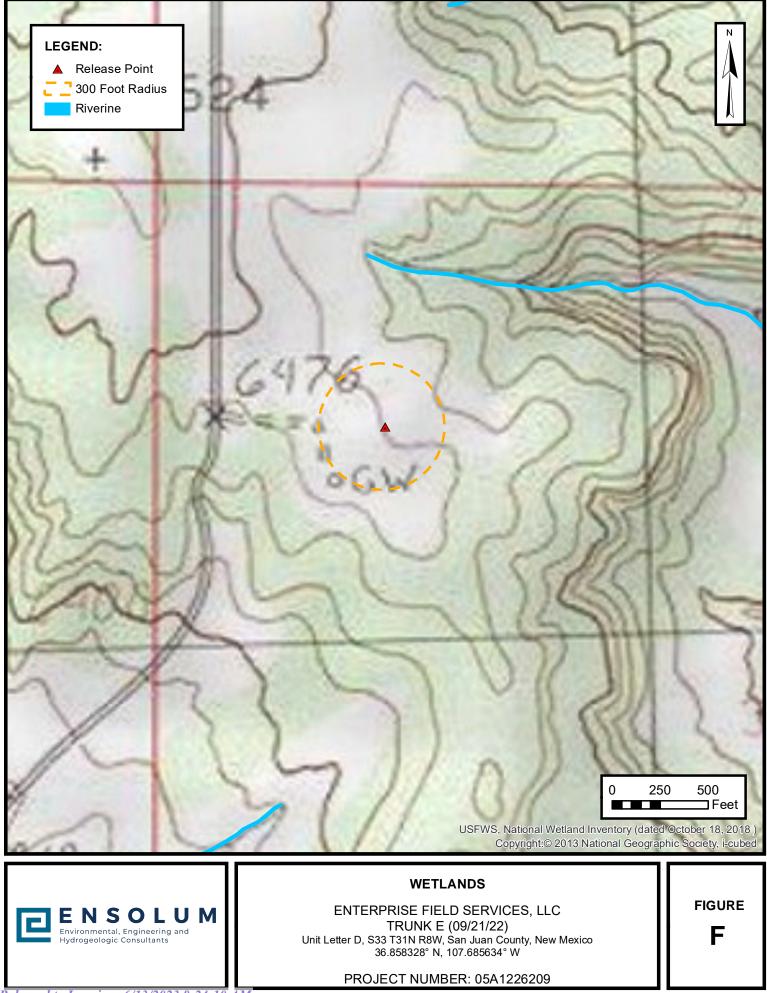




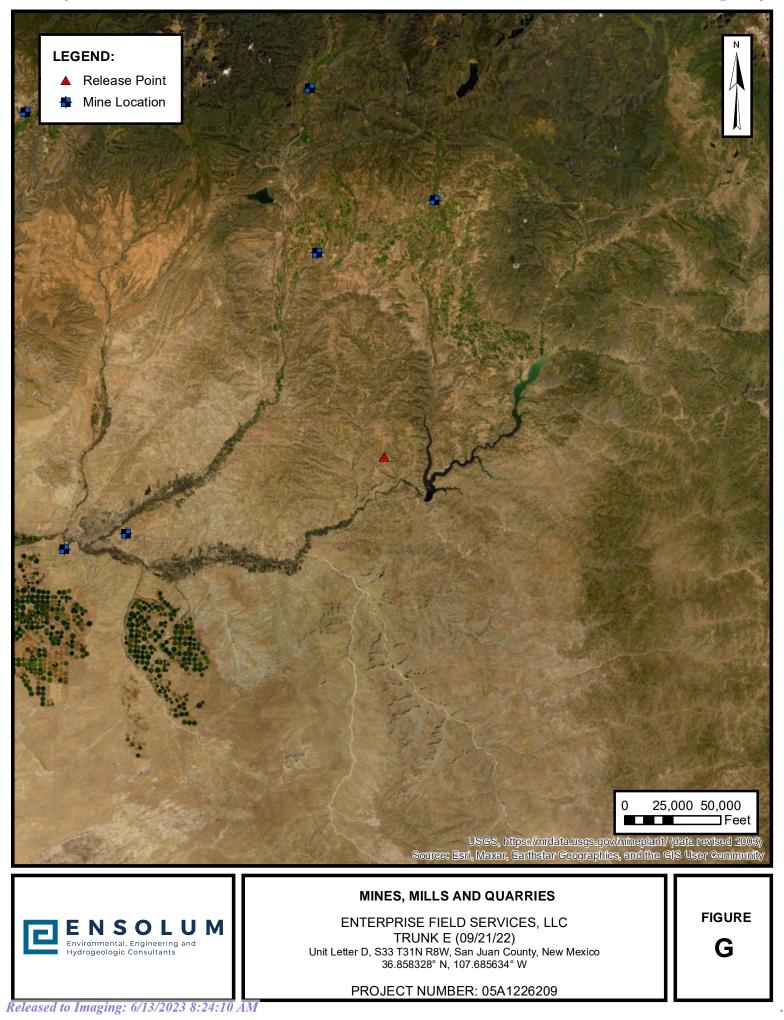


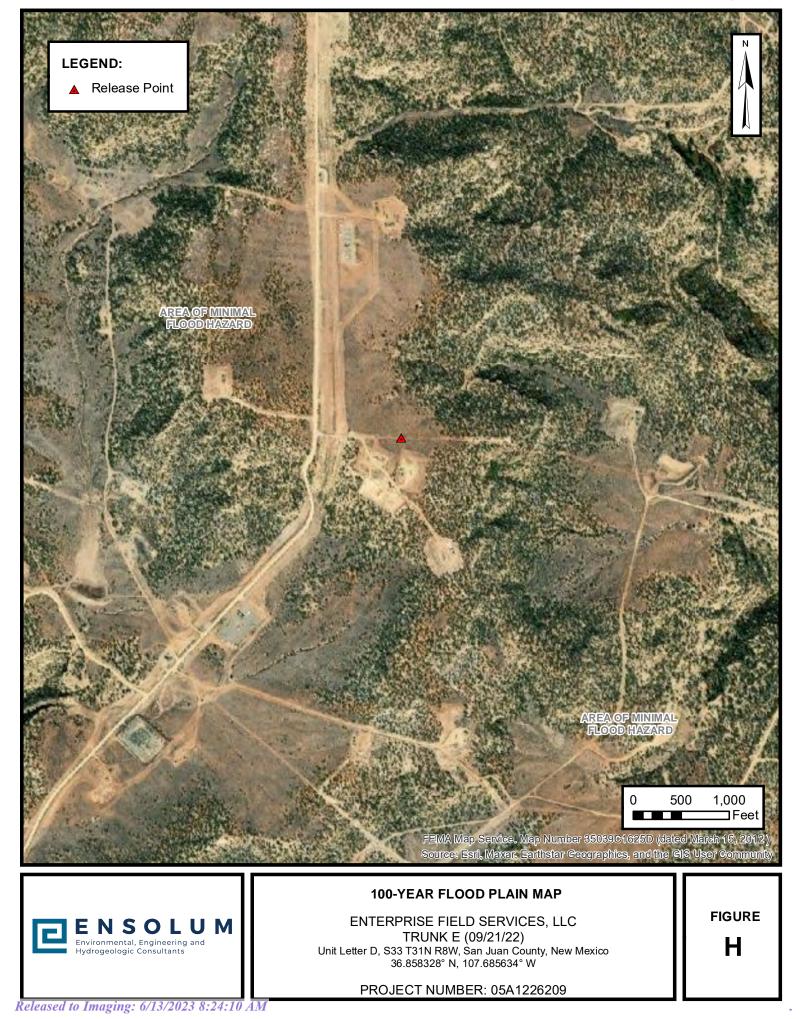


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# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quarters are 1=NW 2=NE 3	3=SW 4=SE) gest) (NAD83 UTM in meters)	(In feet)
POD Number	POD Sub- Code basin C	Q Q Q county 64 16 4 Sec Tws R	ng X Y	Depth Depth Water Well Water Column
<u>SJ 00198</u>	SJ	SJ 4 3 3 32 31N 08	W 258895 4081451* 🌍 Average Depth to Minimun Maximum	n Depth:
Record Count: 1				

**PLSS Search:** 

Section(s): 33, 27, 28, 29,	Township: 31N	Range: 08W
32, 34		

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 3, 4, 5

Township: 30N

Range: 08W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/16/22 11:43 AM

If Cement or Bentonite Plugs have be N/A Depths & thickness of water zones wi Fresh, Clear, Salty, Sulphur, Etc Depths gas encountered: N/A Type & amount of coke breeze used: Depths anodes placed: 320', 310', 155', Depths vent pipes placed: Vent pipe perforations:260'	th description of water when po 110' NO SAMPLE N/A
N/A Depths & thickness of water zones wi Fresh, Clear, Salty, Sulphur, Etc Depths gas encountered:N/A Type & amount of coke breeze used: Depths anodes placed:320', 310', 155',	th description of water when po 110' NO SAMPLE N/A 185', 177', 169', 161', 154', ±46', 1
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N/A Depths & thickness of water zones wi	th description of water when po
-	en placed, show depths & amount
If Cement or Bentonite Plugs have be	en placed, show depths & amount
If Casing is cemented, show amounts	& types used N/A
Casing, Sizes, Types & Depths	
Elevation6272' Completion Date 9/29/88	
Name of Well/Wells or Pipeline Servi	ced HOWELL D #4, #353 cps
Operator <u>MERIDIAN OIL INC.</u>	
NORTHWESTER (Submit 3 copies t	N NEW MEXICO o OCD Aztec Office)
DAWA SHEEW FOR DEED CROUND	BED CATHODIC PROTECTION WELLS
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If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

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MERIDIAN OIL INC. WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drulling Log (Attach Hereto)

= Way 1 22 - 8 - 4-94

1.11

2

5 •	Well Name				· · · · · · · · · · · · · · · · · · ·		Statu:	ويستعدد والأفالة التقالما فمطروه	Ins. Union Check	
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### Page 27 of 91

17794 10-3-38

Completion Date 9-29-88

ALL

CPS # good W DArrell CrASS Drilling Diill No. 3 Well No. Howell D#353 Date 9-29-88 client Meridian Oil Co. County SAN JUAN State New Mexico 0.10 C/AY 10-90 SANdstone 90-100 Shale 100-110 SANC 110-140 SANdy Shate 140-190 Shale SANdstore 190-240 SANdy Shale 240.290 SANdstone 290-300 Shple 300 - 330 SANdstore 330-360 Water @ 110'

12

4A-30-045-21769

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL	Location: Unit SE Sec 33 Twp 31 Rng 8
Name of Well/Wells or Pipeline Serv:	iced HOWELL D #4A
	cps 1001w
Elevation 6253 Completion Date 8/2/76	Total Depth <u>320'</u> Land Type*N/A
Casing, Sizes, Types & Depths	N / A
If Casing is cemented, show amounts	& types used N/A
If Cement or Bentonite Plugs have be	een placed, show depths & amounts used
N/A	
Depths & thickness of water zones w:	ith description of water when possible:
	60'
Depths gas encountered: N/A	
Type & amount of coke breeze used:	
	245', 235', 195', 185', 170', 160', 15
Depths vent pipes placed: N/A	
Vent pipe perforations: 220'	MAY 81 1991
Remarks: <u>(gb #1</u>	OIL CON. DIV.
	LDIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

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WELL CASING CI DDIC PROTECTION CONSTRUCTION R DAILY LOG

Page 30 of 91

Completion Date 8-2-76 **Drilling** Log (Attach Hereto). Well Name CPS No. ocation D#4A 5E33-31o wel 00 & Size Bit Used Nork Order No 6 Total Drilling Rig Time de Hole Depth Total Lbs. Coke Used Lost Circulation Mat'l Used No. Sacks Mud Used 19320 do Depth 280 # 2 270 # 3 260 # 4 245 # 5 235 # 6 195 # 7 185 # 8 170 # 9 160 # 10/50 Anode Output (Amps) # 526 #7 2.7 #8 3.4 # 3 3.4 # 4 2.1 # 6 24 # 94,6 # 10 5,2 # 2 3.1 # 1 **2.3** Anode Depth # 11 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 Anode Output (Amps) # 11 # 12 # 13 # 14 # 15 # 16 # 18 # 20 # 19 No. 8 C.P. Cable Used No. 2 C.P. Cable Used Total Circuit Resistance Amps 13.2 Ohms 1.92 Volts 12.2 Remarks: Driller Soid Blew out at 60' Stort Water injection Drill to 320: Water Next A.M. at 300'- Could Hear Wat Falling - Driller Said Water Coming From 60 Fill to 60' & Log to 320' Vent Perforated 220' Slurig 36 Coke Construction Completed 248.50 (90 00) credent 77.82 Cable 94.60 .38' 2500.92 100.04 To 19.9 2600,96 213.40 lack 336.00 4 194.50 8. 3344.80 2353 Original & 1 Copy All Reports

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		EVENING	Total Men In Crew C	FORMATION	Shale /	La not	No. No. No. (数)	No. DC SIZE STORE LENG: 14 19	NO. DC SIZE	TANDS	SINGLES	DOWN ON KELLY	TOTAL DEPTH	MUD, ADDITIVES USED AND RECEIVED				TIME BREAKDOWN FUNCTION THE STATE		, -			いた。このでは、「いい」では、「いい」では、「いい」では、「いい」では、「いい」では、「いい」では、「いい」では、「いい」では、「いい」では、「いい」では、「いい」では、「いい」では、「いい」では、「いい」						
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El Paso Natural Gas Company ENGINEERING CALCULATION

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30-045-10250
DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)
OperatorMERIDIAN OILLocation: Unit_SW_Sec.28_Twp_31_Rng_8
Name of Well/Wells or Pipeline Serviced <u>HOWELL D #1</u>
cps 247w
Elevation 6483'Completion Date 6/20/74 Total Depth 700' Land Type* N/A
Casing, Sizes, Types & DepthsN/A
If Casing is cemented, show amounts & types used <u>N/A</u>
If Cement or Bentonite Plugs have been placed, show depths & amounts used
Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 460'
Fresh, Clear, Salty, Sulphur, Etc. 460'
Depths gas encountered: N/A OIL CON. DIV
Type & amount of coke breeze used: <u>12700 lbs.</u>
Depths anodes placed: <u>660', 650', 640', 630', 620', 495', 485', 475', 465', 455'</u>
Depths vent pipes placed: N/A
Vent pipe perforations: 495'
Remarks: <u>gb #3</u> FIRST HOLE CAVED AT 430'. LOST LOGGING ANODE AT 600'.

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Received by OCD: 6/12/2023 1:46:55 PM Page 34 of 91 El Paso Natural: Gas Company WELL CASING Form 7-238 (Rev. 1-69) CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG 6/20/74 Completion Date\_ Drilling Log (Attach Hereto). Well Name Location owel 5W 18 -311 247 Work Order No. 84 - 52020.19.50 Anode Hole Depth , Total Lbs. Coke Used Lost Circulation Mat'l Used Total Drilling Rig Time No. Sacks Mud Used 700 <u>12, 700 Est.</u> Anode Depth 650 # 3 640 # 4 630 # 5 620 # 6 495 # 7 4 85 # 8 475 = 9 465 # 10 455 # 2 #2 1.9 #3 2.6 #4 2.6 #5 2.4 #6 1.9 #7 2.4 #8 2.4 #9 2.0 # 10 2.0 45 # 12 420 # 13 # 14 # 15 # 16 # 18 # 19 # 20 Anode Output (Amps) **1**, **0** # 12 **1**. **0** # 13 # 14 # 15 # 16 = 18 # 19 # 20 No. 8 C.P. Cable Used Total Circuit Resistance No. 2 C.P. Cable Used Amps /// Ohms 1.15 385 Volts Hole # 1 Drilled With Air Oriller said Remarks: INCredse @ 460'- 480' LOST Logai WATEr @ 360 Hole Coved Moved Rig 20' ANODE IN HOLE. Drill with Mud to TOO'. VONT Hose Porton 495. 320 Drill pipe STUCK in Hole Freed with Diesel and Magcobar Pipe hax CHemical ADDITIVE All Construction Completed \$ 3,409.00 6° dual aulik 154.00 2Able \$ 3,563.00 GROUND BED LAYOUT SKETCH #,1,387.50 EXTRA DEpTh D dd Bed #2 16 Bed #) 180.00 ExtrA ANDDES 4,950.50 5,130.50 5,205.22 TAX 5,335.72 3-80 12-14-83 New Statoc O la Bed # 3 . Releaset 10 Integing" 8/93/2023 8:24:10 AM

<b>Received</b> by	OCD: 6/12/202.	3 1:46:55 PM

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DIAMOND CORE DRILL DIAMOND DRILLING EG GROUTING FOUNDATION TESTING Mining Guarrying Shaft Sinking Water Well Drilling	UIPMENT erstforgigen dat († 202	CONTRACTORS 14991 W. 44TH AVENUE GOLDEN, COLORADO 80401 PHONE (303) 278-9505	• _ *• •	GENERAL OFFICE 14991 W. 44TH AVENUE Bailey office Call 1-838-4821
	15W		Date	6-20-74
Owner <u>C</u> F	25 24	TW		
Location City	mington	State	Co	unty
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Received by QCD:"6/12/2023-1.246:55 PM	EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT	Sheet Page 36 of 91
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Received by OCD: 6/12/2023 1:46:55 PM 1A-30-045-21776 350-30-045-26921 2 DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office) Operator MERIDIAN OIL Location: Unit E Sec. 28 Twp 31 Rng 8 Name of Well/Wells or Pipeline Serviced HOWELL D #1A, #350 cps 995w Elevation <u>6520</u> Completion Date 9/27/88 Total Depth 520' Land Type\* N/A Casing, Sizes, Types & Depths N/A If Casing is cemented, show amounts & types used <u>N/A</u> If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 18' Depths gas encountered: \_\_\_\_\_N/A\_\_\_\_\_\_ Depths anodes placed: 485', 475', 467', 460', 452', 365', 358', 350', 230', 220' Depths vent pipes placed: 515' DECEIVE Vent pipe perforations: 515' Remarks: ( 95 #2 MAY 3 1 1991 OIL CON DI

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Page 38 of 91 Received by OCD: 6/12/2023 1:46:55 PM MERIDIAN OIL INC. مسی مون 3\_2 م ترم Ma . . • WELL CASING Conup 9-28-495 CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG Completion Date 9-27-88 Drilling Log (Attach Hereto) M Well Name, Line or Plant Work Order # CPS # las, Uason Cherl State bour HI #350 995 X Bad 2110A Anode Size: Anode Type Suze But 2" × 60\* 34 Junion 1/**M** 9R-21-6 Drilling Rig Time Total Lbs. Coke Uses Depin Drilled Depth Logged on Mat'l Used No. Sacks Mud Used 515 Anode Depth 1 3 46M \* 1 4AS :2 475 = 4460 := 5461 : \$365 1 7.35B 1= 8350 1 10 990 • 9230 Anode Output : Amps # 3.3.7 = 4 2.4 1 2 3.3 \*6 2.0 = 7.3.4 ¥ 5 1= 8 2 \*13.2 \* 10 9. \*9 1 Anode Depth # 14 # 15 # 16 1 17 # 18 # 19 f# 20 # 11 = 12 # 13 Anode Output (Amcs) "# 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 # 11 No. 8 C.P. Cable Used No. 2 C.P. Cable Used Total Circuit Resistance 2 Ohms Amos Volts tot insulator unions. Ano. ample. an' TA nstr/len MAT . . OR HOTH OO -'mile 105,00 Rectifier Size:\_ Addn'l Depth 15'6 All Construction Completed 4.80 Depth Credit: Extra Cable: 20'0 15.00 Ditch & 1 Cable: 250'@ 10 (Signatur Ditch & 2 Cable: 25' Meter Pole: 20' Meter Pole: 10' Stub Pole: ā 225.00 Junction Box: 1/0 205.00 GB#1 tax 229.19 4812.99 nø tøx lõt anda

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/12/2023 1:46:55 PM. # 200QW DAriell Crass Drilling Well No. Howoll D 350 Opte 9-22-88 Client Meridian Oil Co. New Mexico County SAN JUAN State Spud 0-20 SANdstore 20-50 Shale 50-60 SANdstone 60-95 Shale. 95-105 SANdstone 105-175 Shale 175-195 Spudstone 195-215 Shale 215-235 SANdstore 235-345 Shale 345-370 SANdstore 370-450 shale 450 490 SANdstone 490-520 WATER @ 18' alante in the case with the first of the state ession is a produce the second

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copy - Division Corrosion Supervisor - Region Corresion Specialist

Laboratory No. 259108 Company	IDIAN O	11		Sample No.	Date S	ampled 7 / 31/91	
Field	Lec	al Description		County or Parish		State	
		K 32-3	1-8	SAN JU	HN.	N.M.	TECH, Inc.         S33 East Main         Farmington         New Mexico         87401
Lease or Unit	Well EDN/	Com A # 3α	Depth	Formation	Water,	B/D	TECH, Inc.
Type of Water (Produced, Sup	pply, etc.)	Sampling F	Point		Sample	ed By	
GROUN	O BEO					nTRW	9
DISSOLVED SOLIDS			OTHER PRO	PERTIES			
CATIONS	mg/l	me/l	pН			7.2	
Sodium, Na (calc)	390	1.7	Specific Grav	ity, 60/60 F.		7,2 1.0041 3,85	202/327-3311
Calcium, Ca	360	18		m-meters) <u>63</u> F.		3,85	
Magnesium, Mg	120	10				<u></u>	
Barium, Ba							
				Total Dissolved So	lids (calc.)	3100.	
ANIONS		<b>.</b> .				J100.	
Chloride, Cl	150	4,2		Iron, Fe (total)			
Sulfate, So <sub>4</sub>	1600			Sulfide, as H <sub>2</sub> S			
Carbonate, CO <sub>3</sub> Bicarbonate, HCO <sub>3</sub>	480	7.9					
			REMARKS &	RECOMMENDATIONS:			
25 20	15 10	5 Q	) 5	10 15	2,0	<b>25</b>	
						10	
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### APPENDIX C

Executed C-138 Solid Waste Acceptance Form Received by OCD: 6/12/2023 1:46:55 PM

District I 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico	Form C-138
District II 1301 W. Grand Avenue, Artesia, NM 88210	Energy Minerals and Natural Resources	Revised 08/01/11
District III 1000 Rio Brazos Road, Aztec, NM 87410	Oil Conservation Division 1220 South St. Francis Dr.	*Surface Waste Management Facility Operator and Generator shall maintain and make this
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	documentation available for Division inspection. 97057 - 1125
	OR APPROVAL TO ACCEPT S	
1. Generator Name and Address:		
Enterprise Field Services, LLC, 614 Reilly	v Ave, Farmington NM 87401	PayKey: RB21200 PM: Marron O'Brien AFE: Pending
2. Originating Site: Trunk E		
3. Location of Material (Street Address,	City, State or ULSTR):	
UL D Section 33 T31N R8W; 36.8583	28, -107.685634	Sept 2022
4. Source and Description of Waste:		1.2
Source: Remediation activities associated	with a natural gas pipeline leak. acted soil associated natural gas pipeline release.	/
Estimated Volume <u>50</u> yd/bbls Knowr	a Volume (to be entered by the operator at the end	d of the haul) $\frac{152/115}{yd^3/bbls}$
-	OR CERTIFICATION STATEMENT OF WA	
Thomas Long		
I, Thomas Long , representative or Generator Signature	authorized agent for Enterprise Products Operati	ng do hereby
certify that according to the Resource Conse	rvation and Recovery Act (RCRA) and the US E ed waste is: (Check the appropriate classification)	
	nerated from oil and gas exploration and product <i>Waste Acceptance Frequency</i> Monthly	
characteristics established in RCRA reg	e which is non-hazardous that does not exceed th ulations, 40 CFR 261.21-261.24, or listed hazard documentation is attached to demonstrate the abo	ous waste as defined in 40 CFR, part 261,
□ MSDS Information □ RCRA Hazard	ous Waste Analysis 🛛 Process Knowledge	□ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 W/	ASTE TESTING CERTIFICATION STATEM	IENT FOR LANDFARMS
I, Thomas Long Generator Signature the required testing/sign the Generator Wast	esentative for Enterprise Products Operating auth e Testing Certification.	orizes <u>Envirotech, Inc.</u> to complete
representative samples of the oil field waste have been found to conform to the specific r	have been subjected to the paint filter test and test equirements applicable to landfarms pursuant to demonstrate the above-described waste conform	sted for chloride content and that the samples Section 15 of 19.15.36 NMAC. The results
OCD Permitted Surface Waste Managem	ent Facility	
Name and Facility Permit #: Envirotect Address of Facility: Hilltop, NM Method of Treatment and/or Disposal:	h Inc. Soil Remediation Facility * Permit #: N	
Waste Acceptance Status:	] APPROVED DENIED	(Must Be Maintained As Permanent Record)
PRINT NAME: Greg Grabbren SIGNATURE: Surface Waste Management Facil	TITLE: <u>Envivo</u> M	<u>Amagen</u> DATE: <u>9/15/22</u> 32-0615

#### **Released to Imaging: 6/13/2023 8:24:10 AM**

Page 44 of 91

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## APPENDIX D

# **Photographic Documentation**

Released to Imaging: 6/13/2023 8:24:10 AM

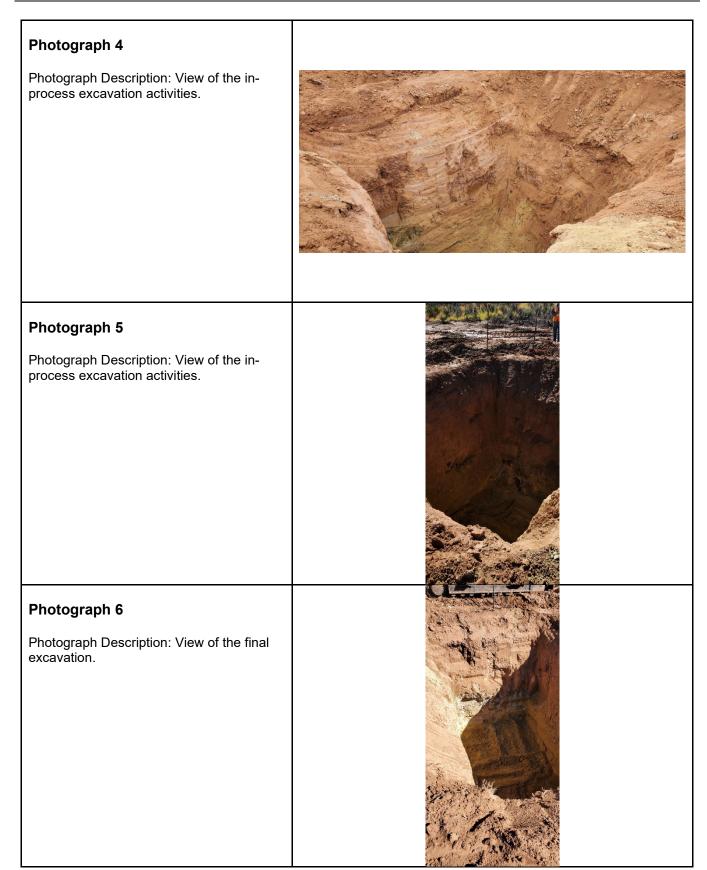
Closure Report Enterprise Field Services, LLC Trunk E (09/21/22) Ensolum Project No. 05A1226209



Photograph 1	
Photograph Description: View of the in- process excavation activities.	
Photograph 2	
Photograph Description: View of the in-	
process excavation activities.	
Photograph 3	
Photograph Description: View of the in- process excavation activities.	

Closure Report Enterprise Field Services, LLC Trunk E (09/21/22) Ensolum Project No. 05A1226209

ENSOLUM



Closure Report Enterprise Field Services, LLC Trunk E (09/21/22) Ensolum Project No. 05A1226209



Photograph 7 Photograph Description: View of the final excavation.	
Photograph 8 Photograph Description: View of the site after initial restoration.	



### APPENDIX E

## **Regulatory Correspondence**

Released to Imaging: 6/13/2023 8:24:10 AM

From:	Kyle Summers
To:	Landon Daniell
Cc:	Ranee Deechilly
Subject:	FW: [EXTERNAL] FW: Trunk E - UL D Section 33 T31N R8W; 36.858328, -107.685634; Incident #nAPP2226445914
Date:	Monday, September 26, 2022 4:01:16 PM
Attachments:	image003.png image004.png image005.png



Kyle Summers Principal 903-821-5603 Ensolum, LLC in f ¥

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, September 26, 2022 3:38 PM
To: Long, Thomas <tjlong@eprod.com>; Ryan Joyner <rjoyner@blm.gov>
Cc: Kyle Summers <ksummers@ensolum.com>; Stone, Brian <bmstone@eprod.com>
Subject: RE: [EXTERNAL] FW: Trunk E - UL D Section 33 T31N R8W; 36.858328, -107.685634; Incident #nAPP2226445914

#### [ \*\*EXTERNAL EMAIL\*\*]

Tom,

Thank you for the notice. Your variance request per 19.15.29.12D (1a) NMAC is approved by OCD.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards

**Nelson Velez** • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@emnrd.nm.gov</u>

Office Hrs.: 7:00am - 12:00pm & 1:00 - 3:30 pm Mon.-Thur. 7:00am - 12:00pm & 1:00 - 4:00 pm Fri. From: Long, Thomas <tilong@eprod.com>
Sent: Monday, September 26, 2022 3:03 PM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>; Ryan Joyner <<u>rjoyner@blm.gov</u>>
Cc: Kyle Summers <<u>ksummers@ensolum.com</u>>; Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: RE: [EXTERNAL] FW: Trunk E - UL D Section 33 T31N R8W; 36.858328, -107.685634;
Incident #nAPP2226445914

Nelson/Ryan,

This email is also a sample notification and variance request. We had one sample that did not pass. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect the closure sample tomorrow September 27, 2022 at 12:00 p.m. at the Trunk E excavation. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Sent: Friday, September 23, 2022 8:20 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Subject: RE: [EXTERNAL] FW: Trunk E - UL D Section 33 T31N R8W; 36.858328, -107.685634;
Incident #nAPP2226445914

[Use caution with links/attachments]

Good morning Tom,

Thank you for the notice. Your variance request is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals

and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards

**Nelson Velez** • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@emnrd.nm.gov</u>

Office Hrs.: 7:00am - 12:00pm & 1:00 - 3:30 pm Mon.-Thur. 7:00am - 12:00pm & 1:00 - 4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com>
Sent: Friday, September 23, 2022 8:17 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] FW: Trunk E - UL D Section 33 T31N R8W; 36.858328, -107.685634;
Incident #nAPP2226445914

Nelson,

Are we good to sample today? We did not yesterday due to the weather. Please see below.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Sent: Thursday, September 22, 2022 7:42 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Subject: RE: [EXTERNAL] FW: Trunk E - UL D Section 33 T31N R8W; 36.858328, -107.685634;
Incident #nAPP2226445914

#### [Use caution with links/attachments]

I did receive. Old email address automatically transmitted to the new domain. Thanks for checking. Have a good day. Regards,

**Nelson Velez** • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@emnrd.nm.gov</u>

Office Hrs.: 7:00am - 12:00pm & 1:00 - 3:30 pm Mon.-Thur. 7:00am - 12:00pm & 1:00 - 4:00 pm Fri.

From: Long, Thomas <<u>tjlong@eprod.com</u>>

Sent: Thursday, September 22, 2022 7:31 AM

To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>

**Subject:** [EXTERNAL] FW: Trunk E - UL D Section 33 T31N R8W; 36.858328, -107.685634; Incident #nAPP2226445914

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

I am not sure you got this email as that I sent to your old email address. Please see below.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



From: Long, Thomas
Sent: Wednesday, September 21, 2022 1:00 PM
To: 'Velez, Nelson, EMNRD' <<u>Nelson.Velez@state.nm.us</u>>; Ryan Joyner <<u>rjoyner@blm.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>
Subject: Trunk E - UL D Section 33 T31N R8W; 36.858328, -107.685634; Incident #nAPP2226445914

Nelson/Ryan,

This email is a notification that Enterprise had a release of natural gas and condensate on the Trunk E pipeline on September 10, 2022. The pipeline was isolated, depressurized, locked and tagged out. No liquids were observed on the ground surface. No water ways were affected. No injuries nor fire resulted from the release. Remediation and repairs began last Friday and Enterprise determined this reportable per NOMCOD regulation due to the volume of impacted subsurface soil on September 21, 2022.

Enterprise collected some soil samples on Friday, September 16, 2022 as delineation samples and would like to use the samples that passed as closure samples.

This email is also a sample notification and variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples tomorrow September 22, 2022 at 10:00 a.m. at the Trunk E excavation. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



### APPENDIX F

## Table 1 – Soil Analytical Summary

Released to Imaging: 6/13/2023 8:24:10 AM

### ENSOLUM

							Trunk	BLE 1 E (09/21/22) YTICAL SUMMAF	RY					
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX <sup>1</sup> (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO) <sup>1</sup> (mg/kg)	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup> (mg/kg)	Chloride (mg/kg)
	Depa onservation Div	neral & Natural R Irtment vision Closure C & Tier II)		10	NE	NE	NE	50	NE	NE	NE	Tier II - 1,000	Tier I (<4 feet) - 100 Tier II - 2,500	Tier I (<4 feet) - 600 Tier II - 10,000
				Comp	osite Soil Sam	ples Removed by	Excavation a	nd Transported t	o the Landfarm	n for Disposal/R	emediation			
S-2	9.16.22	С	5	<0.11	1.4	0.92	16	18	230	1,300	720	1,500	2,300	<60
S-3	9.16.22	С	0 to 5	<0.12	<0.23	<0.23	1.2	1.2	77	160	120	240	360	<60
S-9	9.23.22	С	5 to 12	0.33	6.6	6.7	78	92	990	430	120	1,400	1,500	<60
						E	xcavation Co	nposite Soil Sam	ples			-		
S-1	9.16.22	С	0 to 5	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<14	<46	ND	ND	<60
S-4	9.16.22	С	0 to 5	<0.020	<0.041	<0.041	<0.081	ND	<4.1	<14	<47	ND	ND	<60
S-5	9.23.22	С	12	<0.095	3.7	2.0	26	32	570	68	<47	640	640	<60
S-6	9.23.22	С	4 to 12	<0.096	1.8	0.49	5.0	7.3	110	<15	<49	110	110	<60
S-7	9.23.22	С	0 to 4	<0.026	<0.053	<0.053	<0.11	ND	<5.3	<14	<48	ND	ND	<60
S-8	9.23.22	С	5 to 12	<0.099	<0.20	<0.20	<0.40	ND	21	16	<49	37	37	<60
S-10	9.23.22	С	5 to 12	<0.094	<0.19	<0.19	<0.38	ND	34	21	<46	55	55	<60
S-11	9.27.22	С	4 to 11	<0.11	<0.22	<0.22	<0.43	ND	<22	<15	<49	ND	ND	<60
S-12	9.27.22	С	0 to 4	<0.021	<0.041	<0.041	<0.082	ND	<4.1	<15	<49	ND	ND	<60

#### Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

<sup>1</sup> = Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.

ND = Not Detected above the Practical Quantitation Limits (PQLs) or Reporting Limits (RLs)

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



## APPENDIX G

# Laboratory Data Sheets & Chain of Custody Documentation

Released to Imaging: 6/13/2023 8:24:10 AM



September 21, 2022

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Trunk E

OrderNo.: 2209880

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/17/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209880

Date Reported: 9/21/2022

CLIENT: ENSOLUM		Cl	ient Sample II	D: S-	1		
<b>Project:</b> Trunk E	Collection Date: 9/16/2022 1:00:00 PM						
Lab ID: 2209880-001	Matrix: SOIL		<b>Received Dat</b>	<b>e: 9</b> /1	17/2022 7:45:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JTT	
Chloride	ND	60	mg/Kg	20	9/19/2022 11:13:39 AM	70254	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: DGH	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/19/2022 10:38:14 AM	70248	
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/19/2022 10:38:14 AM	70248	
Surr: DNOP	91.6	21-129	%Rec	1	9/19/2022 10:38:14 AM	70248	
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	9/19/2022 9:02:29 AM	70234	
Surr: BFB	106	37.7-212	%Rec	1	9/19/2022 9:02:29 AM	70234	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Benzene	ND	0.020	mg/Kg	1	9/19/2022 9:02:29 AM	70234	
Toluene	ND	0.041	mg/Kg	1	9/19/2022 9:02:29 AM	70234	
Ethylbenzene	ND	0.041	mg/Kg	1	9/19/2022 9:02:29 AM	70234	
Xylenes, Total	ND	0.082	mg/Kg	1	9/19/2022 9:02:29 AM	70234	
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	9/19/2022 9:02:29 AM	70234	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209880

Date Reported: 9/21/2022

CLIENT: ENSOLUM				ample II			
Project: Trunk E						16/2022 1:05:00 PM	
Lab ID: 2209880-002	Matrix: SOIL		Recei	ved Dat	<b>e:</b> 9/ ]	17/2022 7:45:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	: JTT
Chloride	ND	60		mg/Kg	20	9/19/2022 11:26:04 AM	70254
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS					Analys	: DGH
Diesel Range Organics (DRO)	1300	29		mg/Kg	2	9/19/2022 12:56:49 PM	70248
Motor Oil Range Organics (MRO)	720	96		mg/Kg	2	9/19/2022 12:56:49 PM	70248
Surr: DNOP	85.3	21-129		%Rec	2	9/19/2022 12:56:49 PM	70248
EPA METHOD 8015D: GASOLINE R	ANGE					Analys	: NSB
Gasoline Range Organics (GRO)	230	21		mg/Kg	5	9/19/2022 9:25:57 AM	70234
Surr: BFB	350	37.7-212	S	%Rec	5	9/19/2022 9:25:57 AM	70234
EPA METHOD 8021B: VOLATILES						Analys	: NSB
Benzene	ND	0.11		mg/Kg	5	9/19/2022 9:25:57 AM	70234
Toluene	1.4	0.21		mg/Kg	5	9/19/2022 9:25:57 AM	70234
Ethylbenzene	0.92	0.21		mg/Kg	5	9/19/2022 9:25:57 AM	70234
Xylenes, Total	16	0.42		mg/Kg	5	9/19/2022 9:25:57 AM	70234
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	5	9/19/2022 9:25:57 AM	70234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 8

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209880

Date Reported: 9/21/2022

CLIENT: ENSOLUM		Cl	ient Sample II	<b>D:</b> S-:	3	
Project: Trunk E		(	Collection Dat	<b>e: 9</b> /1	16/2022 1:10:00 PM	
Lab ID: 2209880-003	Matrix: SOIL		<b>Received Dat</b>	<b>e: 9</b> /1	17/2022 7:45:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	60	mg/Kg	20	9/19/2022 11:38:28 AM	70254
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: DGH
Diesel Range Organics (DRO)	160	15	mg/Kg	1	9/19/2022 11:23:39 AM	70248
Motor Oil Range Organics (MRO)	120	49	mg/Kg	1	9/19/2022 11:23:39 AM	70248
Surr: DNOP	93.9	21-129	%Rec	1	9/19/2022 11:23:39 AM	70248
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	77	23	mg/Kg	5	9/19/2022 9:49:33 AM	70234
Surr: BFB	195	37.7-212	%Rec	5	9/19/2022 9:49:33 AM	70234
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.12	mg/Kg	5	9/19/2022 9:49:33 AM	70234
Toluene	ND	0.23	mg/Kg	5	9/19/2022 9:49:33 AM	70234
Ethylbenzene	ND	0.23	mg/Kg	5	9/19/2022 9:49:33 AM	70234
Xylenes, Total	1.2	0.46	mg/Kg	5	9/19/2022 9:49:33 AM	70234
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	5	9/19/2022 9:49:33 AM	70234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209880

Date Reported: 9/21/2022

CLIENT: ENSOLUM		Cli	ient Sample II	D: S-4	4								
Project: Trunk E	<b>Collection Date:</b> 9/16/2022 1:15:00 PM												
Lab ID: 2209880-004	Matrix: SOIL	<b>Received Date:</b> 9/17/2022 7:45:00 AM											
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch							
EPA METHOD 300.0: ANIONS					Analys	t: JTT							
Chloride	ND	60	mg/Kg	20	9/19/2022 11:50:53 AN	70254							
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: DGH							
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/19/2022 11:48:19 AN	70248							
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/19/2022 11:48:19 AN	70248							
Surr: DNOP	81.3	21-129	%Rec	1	9/19/2022 11:48:19 AN	70248							
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB							
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	9/19/2022 10:13:03 AN	70234							
Surr: BFB	104	37.7-212	%Rec	1	9/19/2022 10:13:03 AN	70234							
EPA METHOD 8021B: VOLATILES					Analys	t: NSB							
Benzene	ND	0.020	mg/Kg	1	9/19/2022 10:13:03 AN	70234							
Toluene	ND	0.041	mg/Kg	1	9/19/2022 10:13:03 AN	70234							
Ethylbenzene	ND	0.041	mg/Kg	1	9/19/2022 10:13:03 AN	70234							
Xylenes, Total	ND	0.081	mg/Kg	1	9/19/2022 10:13:03 AN	70234							
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	9/19/2022 10:13:03 AN	70234							

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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WO#: <b>2209880</b>
$100\pi$ . <b>2203000</b>

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Client:	ENSOLU	ЛМ							
Project:	Trunk E								
Sample ID:	MB-70254	SampType	e: MBLK	Tes	tCode: EPA Meth	S			
Client ID:	PBS	Batch ID	: <b>70254</b>	F	RunNo: <b>91126</b>				
Prep Date:	9/19/2022	Analysis Date	: <b>9/19/2022</b>	Ş	SeqNo: <b>3261255</b>	Units: <b>mg/K</b>	g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5						
Sample ID:	LCS-70254	SampType	: LCS	Tes	tCode: EPA Meth	od 300.0: Anion	6		
Client ID:	LCSS	Batch ID	: <b>70254</b>	F	RunNo: <b>91126</b>				
Prep Date:	9/19/2022	Analysis Date	: <b>9/19/2022</b>	Ş	SeqNo: <b>3261256</b>	Units: <b>mg/K</b>	g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	94.7 9	90 110			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**Client: Project:** 

### **QC SUMMARY REPORT** Hall En

1

	WO#: <b>2209880</b>	
nvironmental Analysis Laboratory, Inc.	21-Sep-22	
ENSOLUM Trunk E		

Sample ID: 2209880-001AMS	SampT	ype: MS	6	Tes	estCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: S-1	Batch	n ID: 702	248	F	RunNo: 91130									
Prep Date: 9/19/2022	Analysis D	)ate: <b>9/</b> *	19/2022	S	SeqNo: 32	260197	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	37	15	49.12	0	76.2	36.1	154							
Surr: DNOP	3.6		4.912		74.1	21	129							
Sample ID: 2209880-001AMS	D SampT	уре: МS	SD.	TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: S-1	Batch	n ID: 702	248	RunNo: 91130										
Prep Date: 9/19/2022	Analysis D	)ate: <b>9/</b> *	19/2022	S	SeqNo: 32	260198	Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	39	15	48.54	0	79.8	36.1	154	3.53	33.9					
Surr: DNOP	3.6		4.854		75.0	21	129	0	0					
Sample ID: LCS-70248	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics					
Client ID: LCSS	Batch	n ID: <b>702</b>	248	F	RunNo: <b>9</b> 1	130								
Prep Date: 9/19/2022	Analysis D	)ate: <b>9/</b> *	19/2022	5	SeqNo: 32	260207	Units: mg/K							
								5						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Analyte Diesel Range Organics (DRO)	Result 39	PQL 15	SPK value 50.00	SPK Ref Val 0	%REC 77.3	LowLimit 64.4	HighLimit 127	0	RPDLimit	Qual				
,							8	0	RPDLimit	Qual				
Diesel Range Organics (DRO)	39 3.7		50.00 5.000	0	77.3 73.9	64.4 21	127	%RPD		Qual				
Diesel Range Organics (DRO) Surr: DNOP	39 3.7 SampT	15	50.00 5.000	0 Tes	77.3 73.9	64.4 21 PA Method	127 129	%RPD		Qual				
Diesel Range Organics (DRO) Surr: DNOP Sample ID: <b>MB-70248</b>	39 3.7 SampT	15 Type: ME n ID: 702	50.00 5.000 BLK 248	0 Tes F	77.3 73.9 tCode: EF	64.4 21 PA Method	127 129	%RPD		Qual				
Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-70248 Client ID: PBS	39 3.7 SampT Batch	15 Type: ME n ID: 702	50.00 5.000 BLK 248 19/2022	0 Tes F	77.3 73.9 tCode: EF RunNo: 91 SeqNo: 32	64.4 21 PA Method	127 129 8015M/D: Die	%RPD		Qual				
Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-70248 Client ID: PBS Prep Date: 9/19/2022	39 3.7 SampT Batch Analysis D	15 Type: ME n ID: 702 Date: 9/1	50.00 5.000 BLK 248 19/2022	0 Tes F	77.3 73.9 tCode: EF RunNo: 91 SeqNo: 32	64.4 21 PA Method 1130 260209	127 129 8015M/D: Die Units: mg/K	%RPD sel Range	Organics					
Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-70248 Client ID: PBS Prep Date: 9/19/2022 Analyte	39 3.7 SampT Batch Analysis D Result	15 Type: <b>ME</b> In ID: <b>702</b> Date: <b>9/</b> PQL	50.00 5.000 BLK 248 19/2022	0 Tes F	77.3 73.9 tCode: EF RunNo: 91 SeqNo: 32	64.4 21 PA Method 1130 260209	127 129 8015M/D: Die Units: mg/K	%RPD sel Range	Organics					

#### **Qualifiers:**

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**ENSOLUM** 

**Client:** 

Page	65	of	91
1	00	<i>•j</i>	

	WO#:	2209880
all Environmental Analysis Laboratory, Inc.		21-Sep-22

Project: Trunk E	Ξ									
Sample ID: mb-70234	SampT	уре: МЕ	BLK	Tes						
Client ID: PBS	Batch	n ID: <b>70</b> 2	234	F	RunNo: <b>9</b> 1					
Prep Date: 9/16/2022	Analysis D	)ate: <b>9/</b>	19/2022	Ś	SeqNo: 32	260359	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	37.7	212			
Sample ID: Ics-70234	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	n ID: 702	234	F	RunNo: 9	1122				
Prep Date: 9/16/2022	Analysis D	)ate: <b>9/</b> *	19/2022	5	SeqNo: 32	260360	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	0 102 72.3					
Surr: BFB	2000		1000		201 37.7 212					

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 8

Released to Imaging: 6/13/2023 8:24:10 AM

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	WO#:	2209880
wironmental Analysis Laboratory, Inc.		21-Sep-22

Client: Project:	ENSOLUN Trunk E	Л											
Sample ID: mb	-70234	Samp	Гуре: МІ	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	s	Batc	h ID: <b>70</b>	234	F								
Prep Date: 9/*	16/2022	Analysis [	Date: 9/	/19/2022	S	SeqNo: 3260369 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		ND	0.025										
Toluene		ND	0.050										
Ethylbenzene		ND	0.050										
Xylenes, Total		ND	0.10										
Surr: 4-Bromofluo	probenzene	0.99		1.000		98.8	70	130					
Sample ID: LCS	S-70234	Samp	Гуре: <b>LC</b>	s	Tes	tCode: EF	A Method	8021B: Volati	les				
Client ID: LCS	SS	Batc	h ID: <b>70</b>	234	F	RunNo: <b>9</b> 1	122						
Prep Date: 9/*	16/2022	Analysis [	Date: 9/	/19/2022	S	SeqNo: 32	260370	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		0.91	0.025	1.000	0	91.5	80	120					
Toluene		0.95	0.050	1.000	0	95.5	80	120					
Ethylbenzene		0.97	0.050	1.000	0	97.3	80	120					
		0.57	0.000	1.000	-								
Xylenes, Total		2.9	0.10	3.000	0	97.4	80	120					

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 8 of 8

Ceived by OCD: 6/12/2023 1:46:55 PM ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-	ental Analysis Labo 4901 Hawk Albuquerque, NM 3975 FAX: 505-34, w.hallenvironment	ins NE 87109 <b>Sar</b> 5-4107	nple Log-In Check	Page 67 List
Client Name: ENSOLUM	Work Order Nun	nber: 2209880		RcptNo: 1	
Received By: Juan Rojas	8/17/2022 7:45:00	АМ	i Juan En g		
Completed By: Juan Rojas	9/17/2022 7:58:23	AM	Quanta g		
Reviewed By: VP 9/17/22			/ -		
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🖌	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the sample:	5?	Yes 🗸	No 🗌		
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗸	No 🗌		
5. Sample(s) in proper container(s)?		Yes 🗸	No		
6. Sufficient sample volume for indicated test	(s)?	Yes 🗸	No		
7. Are samples (except VOA and ONG) prope	erly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes	No 🔽	NA	
9. Received at least 1 vial with headspace <1	/4" for AQ VOA?	Yes	No 🗌	NA 🗸	
10. Were any sample containers received brok	ken?	Yes	No 🗸	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🖌	No 🗌	bottles checked for pH:	
12. Are matrices correctly identified on Chain of	f Custody2	Yes 🗸	No 🗌	(<2 or >12 unless Adjusted?	noted)
13. Is it clear what analyses were requested?		Yes 🗸		, injudiou .	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸		Checked by: Jn Q	17/22
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗸	
Person Notified:	Date				
By Whom:	Via:	eMail 🗌 P	hone Fax	In Person	
Regarding: Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u>	eal Intact Seal No	Seal Date	Signed By		

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Receive			D: 6/1	12/2	023	1:46	:55 P)	1					r										Pamo	age 68 oj	
	HALL ENVIRONMENTA	ANALI SIS LABORALOR	allenvironmental.com - Alburuteron NM 87100	ENE 346 4107	st		10001																9 600	AZ	n the analytical repo
ļ	N S	5	www.hallenvironmental.com	hue,	Request	(+(	1924A	\tue				2) 0728 Dotal Co			-		-	-		 			2	R 1321 ZI	otated o
		2	mno <sup>-</sup>		sis R					0/1		A) 0200 A) 0928	-	-		-		-		_			NO	R	early no
i	ЦУ	<u>ה</u>	envii Alhi	ι Γ	Analysis	⁺C	S '⁺O	d '?	ON	<sup>'8</sup> O		1-'1'G		X	15					 	_		P	pay key	ll be cl
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		4	4901 Hawkins NF	Tel 505-345-3975					(1.40	g p	oqtəl	N) 803													b-contr
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Saul	1001							512	No		-+6.2= 6. 8-(°C)	HEAL No.	-001	100-	603	-co-							A TIMU 22	Date <sup>chime</sup> - a 117472 - 7195	s. This serves as notice of this
ld Time:	rd 🕅 Rush		TINK TI			nager:		) in when	I Yes	A COLOR	p(including CF): 0.6	Preservative Type	<			\$							N Are	Arow, 2	accredited laboratories
Turn-Around	□ Standard	Project Name	t	Project #:		Project Manager:	À		Sampler: On Ice:	# of Coolers:	Cooler Temp(including CF):	Container Type and #	1402 /00	>		-\$						-		Received by:	ontracted to other
Chain-of-Custody Record	Ensolum. LC		Mailing Address: 606 5,200 Errunde, Suited	, Q1		Fax#: KSummer 20 ensola rucer	ackage:		ation:  \ Az Compilance C \  D Other			Time Matrix Sample Name	3:00 5 5-1	1305 5 5-2	13.10 5 5-3	3215 5 S-4						Time: Dolinor inched bu:	0	1840 Relinquished by:	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
U	Client:		Mailing	A24	Phone #:	email or Fax#:	QA/QC Package: □ Standard	+ipozoov		□ EDD (Type)		Date	9/16/22/3:00	3/14/2	2/10/22	9/11/22/32/52						Date.	42	9/ 4/22	



September 28, 2022

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2209D34

Dear Kyle Summers:

RE: Trunk E

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/24/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209D34

Date Reported: 9/28/2022

CLIENT:	ENSOLUM	Client Sample ID: S-5
<b>Project:</b>	Trunk E	Collection Date: 9/23/2022 10:00:00 AM
Lab ID:	2209D34-001	Matrix: MEOH (SOIL) Received Date: 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	9/26/2022 10:33:54 AM	70397
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst	DGH
Diesel Range Organics (DRO)	68	14		mg/Kg	1	9/26/2022 11:01:49 AM	70394
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/26/2022 11:01:49 AM	70394
Surr: DNOP	82.9	21-129		%Rec	1	9/26/2022 11:01:49 AM	70394
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	570	19		mg/Kg	5	9/26/2022 9:23:00 AM	B91300
Surr: BFB	298	37.7-212	S	%Rec	5	9/26/2022 9:23:00 AM	B91300
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.095		mg/Kg	5	9/26/2022 9:23:00 AM	D91300
Toluene	3.7	0.19		mg/Kg	5	9/26/2022 9:23:00 AM	D91300
Ethylbenzene	2.0	0.19		mg/Kg	5	9/26/2022 9:23:00 AM	D91300
Xylenes, Total	26	0.38		mg/Kg	5	9/26/2022 9:23:00 AM	D91300
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	5	9/26/2022 9:23:00 AM	D91300

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 10

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209D34

Date Reported: 9/28/2022

CLIENT:	ENSOLUM	Client Sample ID: S-6
Project:	Trunk E	Collection Date: 9/23/2022 10:10:00 AM
Lab ID:	2209D34-002	Matrix: MEOH (SOIL) Received Date: 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	: JMT	
Chloride	ND	60	mg/Kg	20	9/26/2022 10:46:19 AM	70397
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst	DGH	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/26/2022 11:12:19 AM	70394
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/26/2022 11:12:19 AM	70394
Surr: DNOP	89.3	21-129	%Rec	1	9/26/2022 11:12:19 AM	70394
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	110	19	mg/Kg	5	9/26/2022 9:43:00 AM	B91300
Surr: BFB	178	37.7-212	%Rec	5	9/26/2022 9:43:00 AM	B91300
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.096	mg/Kg	5	9/26/2022 9:43:00 AM	D91300
Toluene	1.8	0.19	mg/Kg	5	9/26/2022 9:43:00 AM	D91300
Ethylbenzene	0.49	0.19	mg/Kg	5	9/26/2022 9:43:00 AM	D91300
Xylenes, Total	5.0	0.39	mg/Kg	5	9/26/2022 9:43:00 AM	D91300
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	5	9/26/2022 9:43:00 AM	D91300

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 10

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209D34

Date Reported: 9/28/2022

CLIENT	ENSOLUM	Client Sample ID: S-7
<b>Project:</b>	Trunk E	Collection Date: 9/23/2022 10:20:00 AM
Lab ID:	2209D34-003	Matrix: MEOH (SOIL) Received Date: 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	t: JMT	
Chloride	ND	60	mg/Kg	20	9/26/2022 10:58:44 AM	1 70397
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/26/2022 11:22:51 AM	1 70394
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/26/2022 11:22:51 AN	1 70394
Surr: DNOP	81.6	21-129	%Rec	1	9/26/2022 11:22:51 AM	1 70394
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	5.3	mg/Kg	1	9/26/2022 10:03:00 AM	1 B91300
Surr: BFB	104	37.7-212	%Rec	1	9/26/2022 10:03:00 AM	1 B91300
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.026	mg/Kg	1	9/26/2022 10:03:00 AM	1 D91300
Toluene	ND	0.053	mg/Kg	1	9/26/2022 10:03:00 AM	1 D91300
Ethylbenzene	ND	0.053	mg/Kg	1	9/26/2022 10:03:00 AN	1 D91300
Xylenes, Total	ND	0.11	mg/Kg	1	9/26/2022 10:03:00 AM	1 D91300
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	9/26/2022 10:03:00 AM	1 D91300

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209D34

Date Reported: 9/28/2022

CLIENT:	ENSOLUM	Client Sample ID: S-8
<b>Project:</b>	Trunk E	Collection Date: 9/23/2022 10:30:00 AM
Lab ID:	2209D34-004	Matrix: MEOH (SOIL) Received Date: 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/26/2022 11:11:09 AN	70397
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	DGH
Diesel Range Organics (DRO)	16	15	mg/Kg	1	9/26/2022 11:33:23 AN	70394
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/26/2022 11:33:23 AN	70394
Surr: DNOP	83.0	21-129	%Rec	1	9/26/2022 11:33:23 AN	70394
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	21	20	mg/Kg	5	9/26/2022 10:23:00 AN	B91300
Surr: BFB	151	37.7-212	%Rec	5	9/26/2022 10:23:00 AN	B91300
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.099	mg/Kg	5	9/26/2022 10:23:00 AN	D91300
Toluene	ND	0.20	mg/Kg	5	9/26/2022 10:23:00 AN	D91300
Ethylbenzene	ND	0.20	mg/Kg	5	9/26/2022 10:23:00 AN	D91300
Xylenes, Total	ND	0.40	mg/Kg	5	9/26/2022 10:23:00 AN	D91300
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	5	9/26/2022 10:23:00 AN	D91300

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
  - Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209D34

Date Reported: 9/28/2022

CLIENT	ENSOLUM	Client Sample ID: S-9
<b>Project:</b>	Trunk E	Collection Date: 9/23/2022 10:40:00 AM
Lab ID:	2209D34-005	Matrix: MEOH (SOIL) Received Date: 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: JMT
Chloride	ND	60		mg/Kg	20	9/26/2022 11:23:33 AM	1 70397
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analys	t: DGH
Diesel Range Organics (DRO)	430	14		mg/Kg	1	9/26/2022 11:43:57 AM	1 70394
Motor Oil Range Organics (MRO)	120	46		mg/Kg	1	9/26/2022 11:43:57 AM	1 70394
Surr: DNOP	84.0	21-129		%Rec	1	9/26/2022 11:43:57 AM	1 70394
EPA METHOD 8015D: GASOLINE RANGE						Analys	t: BRM
Gasoline Range Organics (GRO)	990	19		mg/Kg	5	9/26/2022 10:42:00 AM	A B91300
Surr: BFB	439	37.7-212	S	%Rec	5	9/26/2022 10:42:00 AM	A B91300
EPA METHOD 8021B: VOLATILES						Analys	t: BRM
Benzene	0.33	0.094		mg/Kg	5	9/26/2022 10:42:00 AN	1 D91300
Toluene	6.6	0.19		mg/Kg	5	9/26/2022 10:42:00 AM	1 D91300
Ethylbenzene	6.7	0.19		mg/Kg	5	9/26/2022 10:42:00 AM	1 D91300
Xylenes, Total	78	3.7		mg/Kg	50	9/26/2022 11:21:00 AM	1 D91300
Surr: 4-Bromofluorobenzene	170	70-130	S	%Rec	5	9/26/2022 10:42:00 AM	1 D91300

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209D34

Date Reported: 9/28/2022

CLIENT:	ENSOLUM	Client Sample ID: S-10
Project:	Trunk E	Collection Date: 9/23/2022 10:50:00 AM
Lab ID:	2209D34-006	Matrix: MEOH (SOIL) Received Date: 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	9/26/2022 11:35:57 AM	1 70397
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: DGH
Diesel Range Organics (DRO)	21	14	mg/Kg	1	9/26/2022 11:54:31 AM	1 70394
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/26/2022 11:54:31 AN	1 70394
Surr: DNOP	85.8	21-129	%Rec	1	9/26/2022 11:54:31 AM	1 70394
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	34	19	mg/Kg	5	9/26/2022 11:02:00 AM	1 B91300
Surr: BFB	189	37.7-212	%Rec	5	9/26/2022 11:02:00 AM	1 B91300
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.094	mg/Kg	5	9/26/2022 11:02:00 AM	1 D91300
Toluene	ND	0.19	mg/Kg	5	9/26/2022 11:02:00 AM	1 D91300
Ethylbenzene	ND	0.19	mg/Kg	5	9/26/2022 11:02:00 AM	1 D91300
Xylenes, Total	ND	0.38	mg/Kg	5	9/26/2022 11:02:00 AM	1 D91300
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	5	9/26/2022 11:02:00 AM	1 D91300

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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L.	ironmental Analysis Laboratory, Inc.	WO#:	2209D34 28-Sep-22
Client:	ENSOLUM		
Project:	Trunk E		
		de EDA Mathad 000.0. Antana	

Sample ID: MB-70397	SampType	: mblk	TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID:	70397	R	RunNo: <b>91306</b>	6				
Prep Date: 9/26/2022	Analysis Date:	9/26/2022	S	SeqNo: <b>326820</b>	2 <b>01</b> l	Units: <b>mg/K</b>	g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC Low	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5							
Sample ID: LCS-70397	SampType	: Ics	Tes	tCode: EPA M	lethod 3	00.0: Anion	S		
Sample ID: LCS-70397 Client ID: LCSS	SampType Batch ID:			tCode: EPA Me RunNo: 91306		00.0: Anion:	6		
	1 71	70397	R		6	<b>00.0: Anion</b> Units: <b>mg/K</b>	-		
Client ID: LCSS	Batch ID: Analysis Date:	70397 9/26/2022	R	RunNo: <b>91306</b>	5 202 (		-	RPDLimit	Qual

#### **Qualifiers:**

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

# OC SUMMARY REPORT

<b>L</b>	ironmental Analysis Labora	tom Ino	9D34 ep-22
Client:	ENSOLUM		
Project:	Trunk E		
Sample ID: 22	209D34-001AMS SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics	

Sample ID: 2209D34-001AMS	S SampT	ype. wic		Tes		A Method	8015M/D: Die	esel Range	e Organics	
Client ID: S-5	Batch	n ID: <b>70</b>	394	F	RunNo: <b>9</b> 1	1307				
Prep Date: 9/26/2022	Analysis D	ate: 9/	26/2022	S	SeqNo: 32	267727	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	79	14	47.98	68.24	23.4	36.1	154			S
Surr: DNOP	3.9		4.798		80.4	21	129			
Sample ID: 2209D34-001AMS	<b>SD</b> SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: S-5	Batch	n ID: <b>70</b> :	394	F	RunNo: 91	1307				
Prep Date: 9/26/2022	Analysis D	ate: 9/	26/2022	S	SeqNo: 32	267728	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	15	50.00	68.24	76.0	36.1	154	28.8	33.9	
Surr: DNOP	3.6		5.000		72.0	21	129	0	0	
Sample ID: LCS-70394	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	n ID: <b>70</b> :	394	F	RunNo: 91	1307				
Prep Date: 9/26/2022	Analysis D	ate: 9/	26/2022	S	SeqNo: 32	267735	Units: mg/K	'n		
								.9		
Analyte	Result	PQL	SPK value	SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Result 34	PQL 15	SPK value 50.00				•	-	RPDLimit	Qual
				SPK Ref Val	%REC	LowLimit	HighLimit	-	RPDLimit	Qual
Diesel Range Organics (DRO)	34 3.4		50.00 5.000	SPK Ref Val 0	%REC 68.5 67.5	LowLimit 64.4 21	HighLimit 127	%RPD		Qual
Diesel Range Organics (DRO) Surr: DNOP	34 3.4 SampT	15	50.00 5.000	SPK Ref Val 0 Tes	%REC 68.5 67.5	LowLimit 64.4 21 PA Method	HighLimit 127 129	%RPD		Qual
Diesel Range Organics (DRO) Surr: DNOP Sample ID: <b>MB-70394</b>	34 3.4 SampT	15 Type: <b>ME</b> n ID: <b>70</b>	50.00 5.000 3LK 394	SPK Ref Val 0 Tes F	%REC 68.5 67.5 tCode: <b>EF</b>	LowLimit 64.4 21 PA Method 1307	HighLimit 127 129	%RPD		Qual
Diesel Range Organics (DRO) Surr: DNOP Sample ID: <b>MB-70394</b> Client ID: <b>PBS</b>	34 3.4 SampT Batch	15 Type: <b>ME</b> n ID: <b>70</b>	50.00 5.000 3LK 394 26/2022	SPK Ref Val 0 Tes F	%REC 68.5 67.5 tCode: EF RunNo: 9' SeqNo: 32	LowLimit 64.4 21 PA Method 1307	HighLimit 127 129 8015M/D: Die	%RPD		Qual
Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-70394 Client ID: PBS Prep Date: 9/26/2022	34 3.4 SampT Batch Analysis D	15 Type: <b>ME</b> n ID: <b>70</b> Date: <b>9</b> /	50.00 5.000 3LK 394 26/2022	SPK Ref Val 0 Tes F S	%REC 68.5 67.5 tCode: EF RunNo: 9' SeqNo: 32	LowLimit 64.4 21 PA Method 1307 267737	HighLimit 127 129 8015M/D: Did Units: mg/K	%RPD	e Organics	
Diesel Range Organics (DRO) Surr: DNOP Sample ID: <b>MB-70394</b> Client ID: <b>PBS</b> Prep Date: <b>9/26/2022</b> Analyte	34 3.4 SampT Batch Analysis D Result	15 Type: <b>ME</b> In ID: <b>70</b> Pate: <b>9/</b> PQL	50.00 5.000 3LK 394 26/2022	SPK Ref Val 0 Tes F S	%REC 68.5 67.5 tCode: EF RunNo: 9' SeqNo: 32	LowLimit 64.4 21 PA Method 1307 267737	HighLimit 127 129 8015M/D: Did Units: mg/K	%RPD	e Organics	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

**ENSOLUM** 

**Client:** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory

y, Inc.	WO#:	2209D34 28-Sep-22
-		1

Sample ID:         2.5ug gro Ics         SampType:         LCS         TestCode:         EPA Method 8015D:         Gasoline Range           Client ID:         LCSS         Batch ID:         B91300         RunNo:         91300           Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268154         Units:         mg/Kg           Analyte         Result         PQL         SPK xalue         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Gasoline Range Organics (GRO)         24         5.0         25.00         0         96.6         72.3         137           Surr: BFB         2100         1000         214         37.7         212         210           Sample ID:         mb         SampType:         MBLK         TestCode:         EPA Method 8015D:         Gasoline Range           Client ID:         PBS         Batch ID:         B91300         RunNo:         91300         RunNo:         91300           Surr: BFB         1100         1000         107         37.7         212         210           Sample ID:         2209d34-001a ms         SampType:         MS         TestCode:         EPA Method 8015D:         Gasoline	Project:	Trunk E									
Prep Date:       Analysis Date:       9/26/2022       SeqNo:       3268154       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         Gasoline Range Organics (GRO)       24       5.0       25.00       0       96.6       72.3       137         Sur: BFB       2100       1000       214       37.7       212       212       212         Sample ID: mb       SampType:       MBLK       TestCode:       EPA Method       8015D:       Gasoline Range         Client ID:       PBS       Batch ID:       B91300       RunNo:       91300       Prep Date:       Analysis Date:       926/2022       SeqNo:       3268155       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         Gasoline Range Organics (GRO)       ND       5.0       Surget SeqNo:       3268156       Units:       mg/Kg         Sample ID:       2209d34-001a ms       SampType:       MS       TestCode:       EPA Method       8015D:       Gasoline Range         Client ID:	Sample ID: 2.5ug g	r <b>o ics</b> Sa	mpType: L	cs	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Saudine Range Organics (GRO)         24         5.0         25.00         0         96.6         72.3         137           Surr: BFB         2100         1000         214         37.7         212         210           Sample ID: mb         SampType:         MBLK         TestCode:         EPA Method 8015D:         Gasoline Range           Client ID:         PBS         Batch ID:         B91300         RunNo:         91300         Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268155         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Sasoline Range Organics (GRO)         ND         5.0         Sasoline Range	Client ID: LCSS	E	Batch ID: B	91300	F	RunNo: <b>9</b>	1300				
Gasoline Range Organics (GR0)         24         5.0         25.00         0         96.6         72.3         137           Surr: BFB         2100         1000         214         37.7         212           Sample ID: mb         SampType:         MBLK         TestCode:         EPA Method 8015D:         Gasoline Range           Client ID:         PBS         Batch ID:         B91300         RunNo:         91300           Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268155         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Gasoline Range Organics (GR0)         ND         5.0         Surr: BFB         1100         1000         107         37.7         212           Sample ID:         2209d34-001a ms         SampType:         MS         TestCode:         EPA Method 8015D:         Gasoline Range           Client ID:         S-5         Batch ID:         B91300         RunNo:         91300            Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268156         Units:         mg/Kg <td>Prep Date:</td> <td>Analy</td> <td>sis Date: 9</td> <td>/26/2022</td> <td>S</td> <td>SeqNo: 3</td> <td>268154</td> <td>Units: mg/ł</td> <td>٢g</td> <td></td> <td></td>	Prep Date:	Analy	sis Date: 9	/26/2022	S	SeqNo: 3	268154	Units: mg/ł	٢g		
Surr: BFB         2100         1000         214         37.7         212           Sample ID: mb         SampType:         MBLK         TestCode:         EPA Method         8015D:         Gasoline Range           Client ID:         PBS         Batch ID:         B91300         RunNo:         91300           Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268155         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Sasoline Range Organics (GRO)         ND         5.0         Sasoline Range         Sasoline Range         Sasoline Range         Sasoline Range         Sasoline Range         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Sasoline Range Organics (GRO)         Sasoline Range Organics (GRO)         660         19         94.70         567.7         94.3         70         130         Sasoline Range           Sasoline Range Organics (GRO)         660         19         94.70         567.7         94.3         70         130         Sasoline Range         Sasoline	Analyte	Resu	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: mb         SampType:         MBLK         TestCode:         EPA         Method         8015D:         Gasoline Range           Client ID:         PBS         Batch ID:         B91300         RunNo:         91300           Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268155         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Sasoline Range Organics (GRO)         ND         5.0         Sur::         SFB         1100         1000         107         37.7         212         212           Sample ID:         2209d34-001a ms         SampType:         MS         TestCode:         EPA         Method         8015D:         Gasoline Range           Client ID:         S-5         Batch ID:         B91300         RunNo:         91300         Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268156         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit               Gaso	Gasoline Range Organic	s (GRO) 2	.4 5.0	25.00	0	96.6	72.3	137			
Client ID:       PBS       Batch ID:       B91300       RunNo:       91300         Prep Date:       Analysis Date:       9/26/2022       SeqNo:       3268155       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         Basoline Range Organics (GRO)       ND       5.0	Surr: BFB	210	0	1000		214	37.7	212			S
Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268155         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Gasoline Range Organics (GRO)         ND         5.0         1000         107         37.7         212         212           Sample ID:         2209d34-001a ms         SampType:         MS         TestCode:         EPA Method         8015D:         Gasoline Range           Client ID:         S-5         Batch ID:         B91300         RunNo:         91300         Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268156         Units:< mg/Kg	Sample ID: <b>mb</b>	Sa	трТуре: <b>М</b>	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Sasoline Range Organics (GRO)         ND         5.0         1000         107         37.7         212         1000           Sample ID:         2209d34-001a ms         SampType:         MS         TestCode:         EPA Method         8015D:         Gasoline Range           Client ID:         S-5         Batch ID:         B91300         RunNo:         91300         Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268156         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Sasoline Range Organics (GRO)         660         19         94.70         567.7         94.3         70         130         130           Surr: BFB         15000         3788         408         37.7         212         140         140         140         140         140         140         140         140         140         140         140         140         140         130         140         <	Client ID: PBS	E	Batch ID: B	91300	F	RunNo: <b>9</b>	1300				
Gasoline Range Organics (GRO)         ND         5.0           Surr: BFB         1100         1000         107         37.7         212           Sample ID:         2209d34-001a ms         SampType:         MS         TestCode:         EPA Method 8015D:         Gasoline Range           Client ID:         S-5         Batch ID:         B91300         RunNo:         91300         Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268156         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Gasoline Range Organics (GRO)         660         19         94.70         567.7         94.3         70         130           Surr: BFB         15000         3788         408         37.7         212         212           Sample ID:         2209D34-001A MSD         SampType:         MSD         TestCode:         EPA Method 8015D:         Gasoline Range           Client ID:         S-5         Batch ID:         B91300         RunNo:         91300           Prep Date:         Analysis Date:         9/26/2022         SeqNo:         3268157         Units:<	Prep Date:	Analys	sis Date: 9	/26/2022	S	SeqNo: 3	268155	Units: mg/k	٢g		
Surr: BFB         1100         1000         107         37.7         212           Sample ID: 2209d34-001a ms         SampType: MS         TestCode: EPA Method 8015D: Gasoline Range           Client ID:         S-5         Batch ID: B91300         RunNo: 91300           Prep Date:         Analysis Date:         9/26/2022         SeqNo: 3268156         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Sasoline Range Organics (GRO)         660         19         94.70         567.7         94.3         70         130           Sample ID: 2209D34-001A MSD         SampType: MSD         TestCode: EPA Method 8015D: Gasoline Range         Range         Range         Range         Range         Range         Range         Range         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Sample ID: 2209D34-001A MSD         SampType: MSD         TestCode: EPA Method 8015D: Gasoline Range         RAPD         RPDLimit           Glient ID:         S-5	Analyte	Resu	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:       2209d34-001a ms       SampType:       MS       TestCode:       EPA       Method       8015D:       Gasoline Range         Client ID:       S-5       Batch ID:       B91300       RunNo:       91300       Propostation       Value       SeqNo:       3268156       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         Sasoline Range Organics (GRO)       660       19       94.70       567.7       94.3       70       130       130         Surr: BFB       15000       3788       408       37.7       212       120	Gasoline Range Organic	s (GRO) N	D 5.0								
Client ID:       S-5       Batch ID:       B91300       RunNo:       91300         Prep Date:       Analysis Date:       9/26/2022       SeqNo:       3268156       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         Gasoline Range Organics (GRO)       660       19       94.70       567.7       94.3       70       130         Surr: BFB       15000       3788       408       37.7       212       120       100         Sample ID:       2209D34-001A MSD       SampType:       MSD       TestCode:       EPA Method       8015D:       Gasoline Range         Client ID:       S-5       Batch ID:       B91300       RunNo:       91300       1	Surr: BFB	110	0	1000		107	37.7	212			
Prep Date:Analysis Date:9/26/2022SeqNo:3268156Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GRO)6601994.70567.794.370130130Surr: BFB15000378840837.721215002121500Sample ID:2209D34-001A MSDSampType:MSDTestCode:EPA Method 8015D:Gasoline RangeClient ID:S-5Batch ID:B91300RunNo:91300130130Prep Date:Analysis Date:9/26/2022SeqNo:3268157Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GRO)6201994.70567.758.4701305.3120	Sample ID: 2209d3	<b>4-001a ms</b> Sa	mpType: <b>M</b>	S	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GRO)6601994.70567.794.370130Surr: BFB15000378840837.72121500Sample ID: 2209D34-001A MSDSampType: MSDTestCode: EPA Method 8015D: Gasoline RangeClient ID:S-5Batch ID: B91300RunNo: 91300Prep Date:Analysis Date:9/26/2022SeqNo: 3268157Units: mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GRO)6201994.70567.758.4701305.3120	Client ID: S-5	E	Batch ID: B	91300	F	RunNo: <b>9</b>	1300				
Gasoline Range Organics (GRO)         660         19         94.70         567.7         94.3         70         130           Surr: BFB         15000         3788         408         37.7         212           Sample ID: 2209D34-001A MSD         SampType: MSD         TestCode: EPA Method 8015D: Gasoline Range           Client ID:         S-5         Batch ID: B91300         RunNo: 91300           Prep Date:         Analysis Date: 9/26/2022         SeqNo: 3268157         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Gasoline Range Organics (GRO)         620         19         94.70         567.7         58.4         70         130         5.31         20	Prep Date:	Analys	sis Date: 9	/26/2022	S	SeqNo: 3	268156	Units: mg/k	٢g		
Surr: BFB15000378840837.7212Sample ID: 2209D34-001A MSDSampType: MSDTestCode: EPA Method 8015D: Gasoline RangeClient ID:S-5Batch ID: B91300RunNo: 91300Prep Date:Analysis Date:9/26/2022SeqNo: 3268157Units: mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GRO)6201994.70567.758.4701305.3120	Analyte	Resu	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: 2209D34-001A MSD       SampType: MSD       TestCode: EPA Method 8015D: Gasoline Range         Client ID:       S-5       Batch ID: B91300       RunNo: 91300         Prep Date:       Analysis Date:       9/26/2022       SeqNo: 3268157       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         Gasoline Range Organics (GRO)       620       19       94.70       567.7       58.4       70       130       5.31       20	Gasoline Range Organic	s (GRO) 66	60 19	94.70	567.7	94.3	70	130			
Client ID:       S-5       Batch ID:       B91300       RunNo:       91300         Prep Date:       Analysis Date:       9/26/2022       SeqNo:       3268157       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         Gasoline Range Organics (GRO)       620       19       94.70       567.7       58.4       70       130       5.31       20	Surr: BFB	1500	0	3788		408	37.7	212			S
Prep Date:Analysis Date:9/26/2022SeqNo:3268157Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GRO)6201994.70567.758.4701305.3120	Sample ID: 2209D3	4-001A MSD Sa	mpType: <b>M</b>	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GRO)6201994.70567.758.4701305.3120	Client ID: S-5	E	Batch ID: B	91300	F	RunNo: <b>9</b>	1300				
Gasoline Range Organics (GRO)         620         19         94.70         567.7         58.4         70         130         5.31         20	Prep Date:	Analys	sis Date: 9	/26/2022	S	SeqNo: 3	268157	Units: mg/ł	٢g		
	Analyte	Resu	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB 15000 3788 400 37.7 212 0 0	Gasoline Range Organic	s (GRO) 62	20 19	94.70	567.7	58.4	70	130	5.31	20	S
	Surr: BFB	1500	0	3788		400	37.7	212	0	0	S

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 9 of 10

**ENSOLUM** 

Trunk E

**Client:** 

**Project:** 

Sample ID: 100ng btex Ics

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Campie ID. Toong blex ics	Gampi	урс. <b>L</b> С	0	103		Amethou	00210. 0010	lines		
Client ID: LCSS	Batch	n ID: <b>D9</b>	1300	F	RunNo: 9	1300				
Prep Date:	Analysis D	Date: 9/	26/2022	S	SeqNo: 3	268168	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.0	80	120			
Toluene	0.90	0.050	1.000	0	90.0	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.6	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	70	130			
Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	n ID: <b>D9</b>	1300	F	RunNo: 9	1300				
Prep Date:	Analysis E	Date: 9/	26/2022	S	SeqNo: 3	268169	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	70	130			
Sample ID: 2209d34-002a ms	SampT	уре: М	6	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: S-6	Batcl	h ID: <b>D9</b>	1300	F	RunNo: 9	1300				
Prep Date:	Analysis D	Date: 9/	26/2022	S	SeqNo: 3	268170	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.4	0.096	3.855	0	89.5	68.8	120			
Toluene	5.2	0.19	3.855	1.814	87.4	73.6	124			
Ethylbenzene	4.0	0.19	3.855	0.4921	91.1	72.7	129			
Xylenes, Total	15	0.39	11.57	4.991	88.0	75.7	126			
Surr: 4-Bromofluorobenzene	3.9		3.855		101	70	130			
Sample ID: 2209D34-002A MS	<b>5D</b> SampT	уре: М	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: S-6	Batcl	h ID: <b>D9</b>	1300	F	RunNo: 9	1300				
Prep Date:	Analysis E	Date: 9/	26/2022	S	SeqNo: 3	268171	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.3	0.096	3.855	0	85.7	68.8	120	4.33	20	
Toluene	4.9	0.19	3.855	1.814	81.2	73.6	124	4.66	20	
Ethylbenzene	3.8	0.19	3.855	0.4921	86.6	72.7	129	4.49	20	
Xylenes, Total	15	0.39	11.57	4.991	82.5	75.7	126	4.29	20	
Surr: 4-Bromofluorobenzene	3.6		3.855		94.4	70	130	0	0	

TestCode: EPA Method 8021B: Volatiles

### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#:	2209D34

ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental . Albu TEL: 505-345-3975 Website: www.hau	4901 Hawki querque, NM FAX: 505-345	ins NE 87109 Sar 5-4107	nple Log-In Cł	Page 80 Neck List
Client Name: ENSOLUM	Work Order Number:	2209D34		RcptNo:	1
Received By: Cheyenne Cason 9/.	24/2022 7:00:00 AM		Chul		
Completed By: Cheyenne Cason 9/	24/2022 7:12:47 AM		Chul Chul		
Reviewed By: TR9/26/22					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌		
<ol> <li>Were all samples received at a temperature of &gt;</li> </ol>	•0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly pro	eserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for	AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers received broken?		Yes 🗌	No 🗹	# of preserved	
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌		12 unless noted)
2. Are matrices correctly identified on Chain of Cust		Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		a al aut
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	ne gleylae
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this	order?	Yes 🗌	No 🗌	NA 🔽	
Person Notified:	Date:				
By Whom:	Via:	eMail	Phone 🗌 Fax	In Person	
Regarding: Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp ºC Condition Seal I	ntact Seal No S	eal Date	Signed By	I	
1 4.3 Good Yes	Gearing S	cal Date	oigned by		

•

Page 1 of 1

	ANAL ENVIRONMENTAL		www.rialienvironmental.com :0 4901 Hawkins NF - Albininierina NM 87100	Fax 505-345-4107	Analysis Request		) <del>S '</del> †Od	uəsa - <sup> 2</sup> O 2520	or 8 ; , N	10 site	y 83 8 Me 14, <i>1</i> (AO)	PAHs b RCRA 5 8 260 (V 8 270 (S Total Co	X					X						PM Tan Lang	tey RB2	This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
			1 Haw	505-3			SIBOC					9081 P6											_	Q.	Pary	' sub-con
			490	Tel.		(0	NAM / C					170-360 Evidence and accord	X	Ϋ́	$\times$	X	$\times$	X	+	-	+	+-	+	arks:		lity. Any
				T		(	1208) s	BM:	L /	38 T	ΤM	N X T R	X	X	$\searrow$	,Х	$\mathbf{X}$	Ń						Remarks		s possibi
Turn-Around Time:	D Standard K Rush 100%	Project Name:	Trunk E	Project #:	See Notes	Project Manager:	K. Sammers	Sampler: L. Davie II	On Ice: 🞽 Yes 🗆 No	olers:	Cooler Temp(Including CF): 4, 3 - CD 4, 3 (°C)	Container Preservative HEAL No. Type and # Type	col Gn	200	(203	CDH	905	6 CCC						Received by: Via: Date Time	10	
Chain-of-Custody Record	Client: Enselun, LLC		Mailing Address: 606 5. Cic Grande, Sailet	1	Phone #:	email or Fax#: KSUMMERS @ CASOLUM LON	QA/QC Package:	11.00	NELAC     Other			Date Time Matrix Sample Name	9/22/22 10:00 5 5-5	3/22/22 10212 5 5- 6	124/22 10:20 5 5-7	1/2/22/10:30 5 5-8	1/23/22.10:40 5 5-9	12122 10-50 5 5-17						Date: Time: Relinquished by:	Date: Time: Relinquished by: 13122 1810 / Motur Walters	If necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.

•



September 30, 2022

Kyle Summers ENSOLUM 606 S Rio Grande Ste A Aztec, NM 87410 TEL: (903) 821-5603 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Trunk E

OrderNo.: 2209E89

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/28/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 2209E89

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/30/2022 **CLIENT: ENSOLUM** Client Sample ID: S-11 **Project:** Trunk E Collection Date: 9/27/2022 12:00:00 PM Lab ID: 2209E89-001 Matrix: MEOH (SOIL) Received Date: 9/28/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/28/2022 10:31:27 AM	70452
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/28/2022 10:19:19 AM	70449
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/28/2022 10:19:19 AM	70449
Surr: DNOP	84.5	21-129	%Rec	1	9/28/2022 10:19:19 AM	70449
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	22	mg/Kg	5	9/28/2022 9:37:00 AM	A91349
Surr: BFB	106	37.7-212	%Rec	5	9/28/2022 9:37:00 AM	A91349
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.11	mg/Kg	5	9/28/2022 9:37:00 AM	B91349
Toluene	ND	0.22	mg/Kg	5	9/28/2022 9:37:00 AM	B91349
Ethylbenzene	ND	0.22	mg/Kg	5	9/28/2022 9:37:00 AM	B91349
Xylenes, Total	ND	0.43	mg/Kg	5	9/28/2022 9:37:00 AM	B91349
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	5	9/28/2022 9:37:00 AM	B91349

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

\* **Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2209E89

Date Reported: 9/30/2022

CLIENT	ENSOLUM	Client Sample ID: S-12
<b>Project:</b>	Trunk E	Collection Date: 9/27/2022 12:05:00 PM
Lab ID:	2209E89-002	Matrix: MEOH (SOIL) Received Date: 9/28/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	9/28/2022 10:43:47 AM	70452
EPA METHOD 8015M/D: DIESEL RANGE O	ORGANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/28/2022 12:31:42 PM	70449
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/28/2022 12:31:42 PM	70449
Surr: DNOP	85.7	21-129	%Rec	1	9/28/2022 12:31:42 PM	70449
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	9/28/2022 10:16:00 AM	A91349
Surr: BFB	106	37.7-212	%Rec	1	9/28/2022 10:16:00 AM	A91349
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.021	mg/Kg	1	9/28/2022 10:16:00 AM	B91349
Toluene	ND	0.041	mg/Kg	1	9/28/2022 10:16:00 AM	B91349
Ethylbenzene	ND	0.041	mg/Kg	1	9/28/2022 10:16:00 AM	B91349
Xylenes, Total	ND	0.082	mg/Kg	1	9/28/2022 10:16:00 AM	B91349
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	9/28/2022 10:16:00 AM	B91349

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

\* Value exceeds Maximum Contaminant Level. **Qualifiers:** 

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Page	85	of 91	

2209E89

WO#:

Hall Er	nvironmenta	l Analy	vsis L	aborato	ory, Inc.						30-Sep-2.
Client: Project:	ENSOLU Trunk E	ЛМ									
Sample ID:	MB-70452	SampT	ype: mt	olk	Tes	stCode: EF	PA Method	300.0: Anion:	5		
Client ID:	PBS	Batch	n ID: <b>70</b>	452	F	RunNo: <b>9</b> 1	1368				
Prep Date:	9/28/2022	Analysis D	Date: <b>9/</b>	28/2022	S	SeqNo: 32	272046	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-70452	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion:	\$		

Campie 1D. <b>LC3-70432</b>	Gampi	ypc. <b>ics</b>		103		Ameniou	500.0. Amons				
Client ID: LCSS	Batch	ID: 704	52	F	RunNo: <b>9</b> 1	368					
Prep Date: 9/28/2022	Analysis D	ate: 9/2	28/2022	5	SeqNo: 32	272047	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	15	1.5	15.00	0	98.4	90	110				

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2209E89
	20 Can 22

30-Sep-22

Client:	ENSOLUI	M									
Project:	Trunk E										
Sample ID:	2209E89-001AMS	SampType	: MS	3	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
Client ID:	S-11	Batch ID	: 704	449	F	RunNo: 9	1371				
Prep Date:	9/28/2022	Analysis Date	: 9/	28/2022	S	SeqNo: 32	271135	Units: mg/K	g		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	41	15	49.70	0	82.4	36.1	154			
Surr: DNOP		3.6		4.970		71.9	21	129			
Sample ID:	2209E89-001AMSD	SampType	: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
Client ID:	S-11	Batch ID	: 70	449	F	RunNo: <b>9</b> 1	1371				
Prep Date:	9/28/2022	Analysis Date	: 9/	28/2022	Ş	SeqNo: 32	271136	Units: mg/K	g		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	37	14	45.96	0	81.6	36.1	154	8.80	33.9	
Surr: DNOP		3.2		4.596		70.4	21	129	0	0	
Sample ID:	LCS-70449	SampType	: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch ID	: 70	449	F	RunNo: <b>9</b> 1	1371				
Prep Date:	9/28/2022	Analysis Date	: 9/	28/2022	5	SeqNo: 32	271148	Units: mg/K	g		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	34	15	50.00	0	68.0	64.4	127			
Surr: DNOP		3.2		5.000		64.8	21	129			
Sample ID:	MB-70449	SampType	: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
Client ID:	PBS	Batch ID	: 70	449	F	RunNo: 9	1371				
Prep Date:	9/28/2022	Analysis Date	: 9/	28/2022	Ś	SeqNo: 32	271156	Units: mg/K	g		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	15								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		7.6		10.00		75.9	21	129			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2209	E89
	20.0	

30-Sep-22

Client:	ENSOLU	М									
Project:	Trunk E										
Sample ID:	2.5ug gro lcs	Samp	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015D: Gasoli	ine Range		
Client ID:	LCSS	Batc	h ID: <b>A9</b>	1349	F	RunNo: 91	349				
Prep Date:		Analysis [	Date: 9/2	28/2022	ç	SeqNo: 32	271436	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	24	5.0	25.00	0	97.6	72.3	137			Qua
Surr: BFB	,	2200		1000	-	217	37.7	212			S
Sample ID:	mb	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gasoli	ine Range		
Client ID:	PBS	Batc	h ID: <b>A9</b>	1349	F	RunNo: 91	1349				
Prep Date:		Analysis [	Date: 9/2	28/2022	S	SeqNo: 32	271437	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		1100		1000		105	37.7	212			
Sample ID:	2209e89-001ams	Samp	Гуре: <b>МS</b>	5	Tes	tCode: EF	PA Method	8015D: Gasoli	ine Range		
Client ID:	S-11	Batc	h ID: <b>A9</b>	1349	F	RunNo: <b>9</b> 1	349				
Prep Date:		Analysis [	Date: 9/2	28/2022	5	SeqNo: 32	271442	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	22	4.3	21.70	0	101	70	130			
Surr: BFB		1900		868.1		217	37.7	212			S
Sample ID:	2209e89-001amsd	Samp	SampType: MSD TestCode: EPA Method 801								
Client ID:	S-11	Batc	h ID: <b>A9</b>	1349	F	RunNo: <b>9</b> 1	1349				
Prep Date:		Analysis [	Date: <b>9/</b> 2	28/2022	S	SeqNo: 32	271443	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	ge Organics (GRO)	21	4.3	21.70	0	96.0	70	130	5.07	20	
Surr: BFB		1900		868.1		214	37.7	212	0	0	S

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ENSOLUM

Trunk E

**Client:** 

**Project:** 

Sample ID: 100ng btex lcs

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Client ID:	LCSS	Batc	h ID: <b>B9</b> 1	1349	F	RunNo: 91	1349							
Prep Date:		Analysis [	Date: <b>9/</b> 2	28/2022	5	SeqNo: 32	271515	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.91	0.025	1.000	0	90.8	80	120						
Toluene		0.91	0.050	1.000	0	90.7	80	120						
Ethylbenzene		0.93	0.050	1.000	0	93.1	80	120						
Xylenes, Total		2.8	0.10	3.000	0	92.3	80	120						
Surr: 4-Brom	ofluorobenzene	0.94		1.000		94.1	70	130						
Sample ID:	mb	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les					
Client ID:	PBS	Batc	h ID: <b>B9</b> '	1349	F	RunNo: <b>9</b> 1	1349							
Prep Date:		Analysis [	Date: 9/2	28/2022	S	SeqNo: 32	271516	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		ND	0.025											
Toluene		ND	0.050											
Ethylbenzene		ND	0.050											
Xylenes, Total		ND	0.10											
Surr: 4-Brom	ofluorobenzene	0.95		1.000		94.9	70	130						
0	2200e80 002eme	Sama	Гуре: МS		Tos	TestCode: EPA Method 8021B: Volatiles								
Sample ID:	2209e89-002ams	Samp	iype. Wis		103		A Methou		163					
	S-12		h ID: <b>B9</b>			RunNo: 91			162					
•			h ID: <b>B9</b>	1349	F		1349	Units: mg/K						
Client ID:		Batc	h ID: <b>B9</b>	1349	F	RunNo: <b>9</b> 1	1349			RPDLimit	Qual			
Client ID: Prep Date:		Batc Analysis [	h ID: <b>B9</b> Date: <b>9/</b> 2	1349 28/2022	F	RunNo: 91 SeqNo: 32	1349 271521	Units: mg/K	g	RPDLimit	Qual			
Client ID: Prep Date: Analyte		Batc Analysis [ Result	h ID: <b>B9</b> Date: <b>9/</b> 2 PQL	1349 28/2022 SPK value	F S SPK Ref Val	RunNo: 9 SeqNo: 32 %REC	1349 271521 LowLimit	Units: <b>mg/K</b> HighLimit	g	RPDLimit	Qual			
Client ID: Prep Date: Analyte Benzene		Batc Analysis I Result 0.65	h ID: <b>B9</b> Date: <b>9/</b> 2 PQL 0.018	1349 28/2022 SPK value 0.7067	F SPK Ref Val 0	RunNo: <b>9</b> SeqNo: <b>32</b> %REC 91.6	271521 LowLimit 68.8 73.6 72.7	Units: <b>mg/K</b> HighLimit 120	g	RPDLimit	Qual			
Client ID: Prep Date: Analyte Benzene Toluene		Batc Analysis I Result 0.65 0.66	h ID: <b>B9</b> Date: <b>9/</b> PQL 0.018 0.035	1349 28/2022 SPK value 0.7067 0.7067	F SPK Ref Val 0 0	RunNo: <b>9</b> SeqNo: <b>32</b> %REC 91.6 93.0	271521 LowLimit 68.8 73.6	Units: <b>mg/K</b> HighLimit 120 124	g	RPDLimit	Qual			
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total		Batc Analysis I Result 0.65 0.66 0.66	h ID: <b>B9</b> Date: <b>9</b> /2 PQL 0.018 0.035 0.035	1349 28/2022 SPK value 0.7067 0.7067 0.7067	F SPK Ref Val 0 0 0	RunNo: 9 SeqNo: 32 %REC 91.6 93.0 93.8	271521 LowLimit 68.8 73.6 72.7	Units: <b>mg/K</b> HighLimit 120 124 129	g	RPDLimit	Qual			
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	S-12	Batc Analysis I Result 0.65 0.66 0.66 2.0 0.63	h ID: <b>B9</b> Date: <b>9</b> /2 PQL 0.018 0.035 0.035	1349 28/2022 SPK value 0.7067 0.7067 2.120 0.7067	F SPK Ref Val 0 0 0 0	RunNo: 9 SeqNo: 32 %REC 91.6 93.0 93.8 92.3 89.0	271521 LowLimit 68.8 73.6 72.7 75.7 70	Units: <b>mg/K</b> HighLimit 120 124 129 126	g %RPD	RPDLimit	Qual			
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:	S-12	Batc Analysis I Result 0.65 0.66 0.66 2.0 0.63	h ID: <b>B9</b> Date: <b>9/2</b> PQL 0.018 0.035 0.035 0.071	1349 28/2022 SPK value 0.7067 0.7067 0.7067 2.120 0.7067 5D	F SPK Ref Val 0 0 0 0 0 Tes	RunNo: 9 SeqNo: 32 %REC 91.6 93.0 93.8 92.3 89.0	271521 LowLimit 68.8 73.6 72.7 75.7 70 PA Method	Units: <b>mg/K</b> HighLimit 120 124 129 126 130	g %RPD	RPDLimit	Qual			
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:	S-12 ofluorobenzene 2209e89-002amsd	Batc Analysis I Result 0.65 0.66 0.66 2.0 0.63	h ID: <b>B9</b> Date: <b>9</b> /2 PQL 0.018 0.035 0.035 0.071 Fype: <b>MS</b> h ID: <b>B9</b>	1349 28/2022 SPK value 0.7067 0.7067 2.120 0.7067 3D 1349	F SPK Ref Val 0 0 0 0 Tes F	RunNo: 9 SeqNo: 32 %REC 91.6 93.0 93.8 92.3 89.0 tCode: EF	271521 LowLimit 68.8 73.6 72.7 75.7 70 PA Method 1349	Units: <b>mg/K</b> HighLimit 120 124 129 126 130	g %RPD	RPDLimit	Qual			
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID:	S-12 ofluorobenzene 2209e89-002amsd	Batc Analysis I Result 0.65 0.66 0.66 2.0 0.63 Samp Batc Analysis I Result	h ID: <b>B9</b> Date: <b>9</b> /2 0.018 0.035 0.035 0.071 Fype: <b>MS</b> h ID: <b>B9</b> Date: <b>9</b> /2 PQL	1349 28/2022 SPK value 0.7067 0.7067 2.120 0.7067 2.120 0.7067 5D 1349 28/2022 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	RunNo: 9 SeqNo: 32 %REC 91.6 93.0 93.8 92.3 89.0 tCode: EF RunNo: 9 SeqNo: 32 %REC	271521 LowLimit 68.8 73.6 72.7 75.7 70 PA Method 1349 271522 LowLimit	Units: <b>mg/K</b> HighLimit 120 124 129 126 130 <b>8021B: Volati</b> Units: <b>mg/K</b> HighLimit	g %RPD les g %RPD	RPDLimit	Qual			
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date:	S-12 ofluorobenzene 2209e89-002amsd	Batc Analysis I Result 0.65 0.66 2.0 0.63 Samp Batc Analysis I Result 0.60	h ID: <b>B9</b> Date: <b>9</b> /2 PQL 0.018 0.035 0.035 0.035 0.071 Type: <b>MS</b> h ID: <b>B9</b> Date: <b>9</b> /2	1349 28/2022 SPK value 0.7067 0.7067 2.120 0.7067 2.120 0.7067 3D 1349 28/2022	F SPK Ref Val 0 0 0 0 0 Tes F	RunNo: 9 SeqNo: 32 %REC 91.6 93.0 93.8 92.3 89.0 tCode: EF RunNo: 9 SeqNo: 32	271521 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 1349 271522	Units: mg/K HighLimit 120 124 129 126 130 8021B: Volati Units: mg/K	g %RPD les g					
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte	S-12 ofluorobenzene 2209e89-002amsd	Batc Analysis I 0.65 0.66 0.66 2.0 0.63 Samp Batc Analysis I Result 0.60 0.62	h ID: <b>B9</b> Date: <b>9</b> /2 0.018 0.035 0.035 0.071 Type: <b>MS</b> h ID: <b>B9</b> Date: <b>9</b> /2 PQL 0.018 0.035	1349 28/2022 SPK value 0.7067 0.7067 2.120 0.7067 30 1349 28/2022 SPK value 0.7067 0.7067	SPK Ref Val 0 0 0 0 0 Tes SPK Ref Val 0 0	RunNo: 9 SeqNo: 32 %REC 91.6 93.0 93.8 92.3 89.0 tCode: EF RunNo: 9 SeqNo: 32 %REC 85.3 87.4	1349 271521 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 1349 271522 LowLimit 68.8 73.6	Units: mg/K HighLimit 120 124 129 126 130 8021B: Volati Units: mg/K HighLimit 120 124	g %RPD les g %RPD 7.17 6.20	RPDLimit 20 20				
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene	S-12 ofluorobenzene 2209e89-002amsd	Batc Analysis I Result 0.65 0.66 2.0 0.63 Samp Batc Analysis I Result 0.60 0.62 0.63	h ID: B9 Date: 9/2 0.018 0.035 0.035 0.035 0.071 Fype: MS h ID: B9 Date: 9/2 PQL 0.018 0.035 0.035	1349 28/2022 SPK value 0.7067 0.7067 2.120 0.7067 3D 1349 28/2022 SPK value 0.7067 0.7067 0.7067	F SPK Ref Val 0 0 0 0 0 Tes 5 SPK Ref Val 0 0 0 0	RunNo: 9 SeqNo: 32 91.6 93.0 93.8 92.3 89.0 tCode: EF RunNo: 9 SeqNo: 32 %REC 85.3 87.4 88.8	271521 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 1349 271522 LowLimit 68.8 73.6 72.7	Units: mg/K HighLimit 120 124 129 126 130 8021B: Volati Units: mg/K HighLimit 120 124 129	g %RPD les g %RPD 7.17 6.20 5.44	RPDLimit 20 20 20				
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	S-12 ofluorobenzene 2209e89-002amsd	Batc Analysis I 0.65 0.66 0.66 2.0 0.63 Samp Batc Analysis I Result 0.60 0.62	h ID: <b>B9</b> Date: <b>9</b> /2 0.018 0.035 0.035 0.071 Type: <b>MS</b> h ID: <b>B9</b> Date: <b>9</b> /2 PQL 0.018 0.035	1349 28/2022 SPK value 0.7067 0.7067 2.120 0.7067 30 1349 28/2022 SPK value 0.7067 0.7067	SPK Ref Val 0 0 0 0 0 Tes SPK Ref Val 0 0	RunNo: 9 SeqNo: 32 %REC 91.6 93.0 93.8 92.3 89.0 tCode: EF RunNo: 9 SeqNo: 32 %REC 85.3 87.4	1349 271521 LowLimit 68.8 73.6 72.7 75.7 70 24 Method 1349 271522 LowLimit 68.8 73.6	Units: mg/K HighLimit 120 124 129 126 130 8021B: Volati Units: mg/K HighLimit 120 124	g %RPD les g %RPD 7.17 6.20	RPDLimit 20 20				

TestCode: EPA Method 8021B: Volatiles

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 6 of 6

WO#: 2209E89

30-Sep-22

ived by OGD <u>x16/12/2023 1:46:55 PM</u> ENVIRONMENTAL ANALYSIS LABORATORY		4901 Hawki erque, NM IX: 505-345	ins NE 87109 Sa 5-4107	mple Log-In Che	Page 8 ock List
Client Name: ENSOLUM	Work Order Number: 2	209E89		RcptNo: 1	
Received By: Juan Rojas 9/2	28/2022 7:05:00 AM		Guansa g	2	
Completed By: Tracy Casarrubias 9/2 Reviewed By: 9-28-22	28/2022 7:40:58 AM				
Chain of Custody					
1. Is Chain of Custody complete?	Y	es 🗸	No 🗌	Not Present	
2. How was the sample delivered?	<u>C</u>	ourier			
Log In 3. Was an attempt made to cool the samples?				_	
• Was an attempt made to cool the samples?	Ye	es 🔽	No 🗌	NA 🗌	
4. Were all samples received at a temperature of >0	0° C to 6.0°C Ye	s 🗸	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?	Ye	s 🗸	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Ye	s 🔽	No 🗌	8	
7. Are samples (except VOA and ONG) properly pres	served? Yes	s 🗸	No 🗌		
8. Was preservative added to bottles?		s 🗌	No 🔽	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for A	AQ VOA? Yes		No 🗌	NA 🔽	
10. Were any sample containers received broken?	Ye	s 🗆	No 🔽	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes		No 🗌	bottles checked for pH:	
12. Are matrices correctly identified on Chain of Custo	dv2 Vec		No 🗌	(<2 or >12 u Adjusted?	nless noted)
13. Is it clear what analyses were requested?	Yes	_	No 🗌 No 🗌	, tujuotou :	
14. Were all holding times able to be met? (If no, notify customer for authorization.)				Checked by: JN	9/28/22
Special Handling (if applicable)			-		
15. Was client notified of all discrepancies with this on	der? Ye	s 🗌	No 🗌	NA 🔽	
Person Notified:	ministraturi - temperaturi -				
By Whom:	Date: ────────────────────────────────────	1ail 🗌 Pi			
Regarding:			hone 🗌 Fax	In Person	
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u>					
Cooler No Temp °C Condition Seal Inta	act Seal No Seal D	Date	Signed By		
1 0.9 Good Yes			g		

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Page 1 of 1

In increased by submitted to Hall Environmental may be subcontracted to other/accredited laboratories. This serves as notice of	100 1802 / Maste Warden	Time: Relinguished by:		2023	1:40	:55	PM						1/2/12/12:05 5 - 12	Marpha Riax S S - 11	Date Time Matrix Sample Name	EDD (Type)		Accreditation:   Az Compliance	□ Standard □ Level 4 (Full Validation)	QA/QC Package:	email or Fax#:	e /	074/0	Mailing Address: 600 5 Pro Contracto Sector	Pa	Gent: Enselver, LLC	of 91 Chain-of-Custody Record	
ontracted to other accredited laboratories. This serves as notice of this	Variation of 198/22 7:05	Via: Date Time										0	¢	1402 jas (CD) 001	Cooler Temp(including cF):     (- & + (- ) - (- ) (°C)       Container     Preservative     HEAL No.       Type and #     Type <b>2.209EB9</b>	# of Coolers: 1	,I-Yes	Sampler: 1 Danie Lí	Summers		Project Manager:		Project #:			Standard & Rush 1001 Day	Turn-Around Time:	
this possibility. Any sub-contracted data will be clearly notated on the analytical report.	1	Remarks:											X	×	BTEX / MT	BE	1	MB	's (8	021	)							
lity. An	Pe	arks:			_	_		_	_			-	$\succ$	X	TPH:8015D						))			490				
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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:		OGRID:
Ent	terprise Field Services, LLC	241602
PO	) Box 4324	Action Number:
Ηοι	buston, TX 77210	226502
		Action Type:
		[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	6/13/2023

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Action 226502